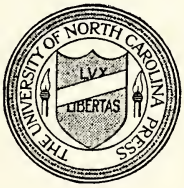
THE UNIVERSITY OF NORTH CAROLINA

THE ONE HUNDRED AND THIRTY-FIRST SESSION



The Catalogue
1924-1925

ANNOUNCEMENTS FOR
1925-1926

1925

JANUARY

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1926

JANUARY

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OCTOBER

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NOVEMBER

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DECEMBER

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CALENDAR

1925

June 7-10	*Sunday to Wednesday.* Commencement.
June 12-August 29	Summer School of Law.
June 12-July 21	Summer Quarter, First Term.
July 22-August 29	Summer Quarter, Second Term.
September 9-12	*Wednesday to Saturday.* Examinations for Removal of Conditions. Entrance Examinations.
September 15-16	*Tuesday and Wednesday.* Registration for Fall Quarter.
September 17	*Thursday.* Fall Quarter begins.
October 12	*Monday.* University Day Exercises.
November 25	*Wednesday.* Thanksgiving Recess begins (1:00 P. M.).
November 30	*Monday.* Thanksgiving Recess ends (8:30 A. M.).
December 16	*Wednesday.* Fall Quarter Examinations begin.
December 19	*Saturday.* Fall Quarter ends. Christmas Recess begins.

1926

January 4	*Monday.* Registration for Winter Quarter completed.
January 5	*Tuesday.* Winter Quarter begins.
February 1	*Monday.* Candidates for Mangum Medal Announce Subjects to their Respective Deans.
March 16	*Tuesday.* Winter Quarter Examinations begin.
March 19	*Friday.* Winter Quarter ends.
March 20	*Saturday.* Spring Quarter begins. Registration for Spring Quarter completed.
April 3	*Saturday.* Easter Recess begins (1:00 P. M.).
April 12	*Monday.* Easter Recess ends (8:30 A. M.).
May 1	*Saturday.* Selection of Commencement Orators.
June 1	*Tuesday.* Spring Quarter Examinations begin.
June 4	*Friday.* Spring Quarter Examinations end.
June 6-9	*Sunday to Wednesday.* Commencement Exercises.
June 8	*Tuesday.* Alumni Day. Meeting of the Board of Trustees.
June 9	*Wednesday.* Commencement Day.

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PART ONE—OFFICERS

BOARD OF TRUSTEES
OFFICERS OF ADMINISTRATION
OFFICERS OF INSTRUCTION
FACULTY COMMITTEES

TRUSTEES

ANGUS WILTON McLEAN, Governor, President *ex officio* of the Board of Trustees.

ARCH TURNER ALLEN, Superintendent of Public Instruction, member *ex officio* of the Board of Trustees.

HENRY MAUGER LONDON, Secretary of the Board.

MEMBERS OF THE BOARD

1925*

Perrin Busbee	Wake
Julian Shakespeare Carr**	Durham
Josephus Daniels	Wake
William Dunn, Jr.	Craven
Alexander Hawkins Graham	Orange
Augustus Washington Graham	Granville
George Chancellor Green	Halifax
Harry Percy Grier	Iredell
Harry P. Harding	Mecklenburg
Luther Thompson Hartsell	Cabarrus
John Wetmore Hinsdale, Jr.	Wake
Franklin P. Hobgood**	Granville
William Stamps Howard	Edgecombe
Maxcy Luther John	Scotland
Paul Jones Long	Northampton
William Lunsford Long	Halifax
John Hall Manning	Lenoir

* The legal term of office expires November 30th of the year indicated.
** Deceased.

GEORGE MCNEILL ROSE**	Cumberland
JAMES SPRUNT*	New Hanover
HORACE EDNEY STACY	Robeson
GEORGE STEPHENS	Buncombe
NEWMAN ALEXANDER TOWNSEND	Harnett
LYCURGUS RAYNER VARSER	Robeson
LINDSAY CARTER WARREN	Beaufort

1927

BENJAMIN LEONIDAS BANKS	Gates
JAMES CRAWFORD BIGGS	Wake
WILLIS JAMES BROGDEN	Durham
WILLIAM HYSLOP SUMNER BURGWYN	Northampton
WILLIAM PRESTON BYNUM	Guilford
BURTON CRAIGE	Forsyth
REUBEN OSCAR EVERETT	Durham
JOHN WASHINGTON GRAHAM	Orange
JAMES LEE HYATT	Yancey
BENJAMIN KITTRELL LASSITER	Granville
STAHLE LINN	Rowan
JACOB ELMER LONG	Durham
WALTER MURPHY	Rowan
HENRY ALLISON PAGE	Moore
EDGAR WALTER PHARR	Mecklenburg
ROBERT BURWELL REDWINE	Union
ALEXANDER ABEL SHUFORD, JR.	Catawba
CHARLES LEE SMITH	Wake
EUGENE JACKSON TUCKER	Person
ZEB VANCE WALSER	Davidson
LESLIE WEIL	Wayne
CHARLES WHEDBEE	Perquimans
JOHN NESTOR WILSON	Guilford
FRANCIS DONNELL WINSTON	Bertie
ALBERT EDGAR WOLTZ	Gaston

1929

THOMAS HALL BATTLE	Nash
JAMES MCENTIRE CARSON*	Rutherford
FREDERICK JACKSON COXE	Anson
WILLIE REID DALTON	Rockingham
CLAUDIUS DOCKERY	Montgomery
RUFUS ALEXANDER DOUGHTON	Alleghany
WILLIAM NASH EVERETT	Richmond

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* Deceased.
** Resigned.

JAMES THOMAS EXUM	Green
EPHRAIM LASH GAITHER	Davie
THOMAS JACKSON GOLD	Guilford
JAMES ALEXANDER GRAY	Forsyth
JOHN SPRUNT HILL	Durham
CHARLES ANDREW JONAS	Lincoln
JOSIAH CRUDUP KITTRELL	Vance
JOHN HENRY MCMULLAN, JR.	Chowan
JULIAN SMITH MANN	Hyde
HAYWOOD PARKER	Buncombe
JOHN HENRY PEARSON, JR.	Burke
WILLIE MANGUM PERSON	Franklin
AUGUSTUS HOBSON PRICE	Rowan
JAMES DICK PROCTOR	Robeson
ALFRED MOORE SCALES	Guilford
DORMAN THOMPSON*	Iredell
GRAHAM WOODARD	Wilson
CLEMENT GILLESPIE WRIGHT	Guilford

1931

THOMAS CONTEE BOWIE	Ashe
WILLIAM EDMOND BREESE	Transylvania
BENNEHAN CAMERON	Durham
JAMES LESTER DELANEY	Mecklenburg
JOHN CHRISTOPH BLUCHER EHRINGHAUS	Pasquotank
ADOLPHUS HILL ELLER	Forsyth
JOHN WILLIAM FRIES	Forsyth
GEORGE KENNETH GRANTHAM	Harnett
CHARLES FELIX HARVEY	Lenoir
JOHN ADDISON HENDRICKS	Madison
WILLIAM LANIER HILL	Duplin
GEORGE ALLAN HOLDERNESS	Edgecombe
RICHARD HENRY LEWIS	Wake
HENRY MAUGER LONDON	Wake
ADDISON GOODLOE MANGUM	Gaston
JAMES SMITH MANNING	Wake
EDWARD S. PARKER, JR.	Alamance
JOHN JOHNSON PARKER	Mecklenburg
ROBERT LEE SMITH	Stanly
GEORGE SPENCER STEELE	Richmond
WALTER FRANK TAYLOR	Wayne
THOMAS DAVIS WARREN	Craven
BAXTER BURKE WILLIAMS	Warren
JOHN KENYON WILSON	Pasquotank
STANLEY WINBORNE	Hertford

* Deceased.

EXECUTIVE COMMITTEE OF THE TRUSTEES

ANGUS WILTON MCLEAN, *ex officio*, Chairman
HENRY M. LONDON, *ex officio*, Secretary

**1926:* W. N. EVERETT, W. P. BYNUM, HAYWOOD PARKER, JOSEPHUS DANIELS, A. M. SCALES.

**1927:* A. T. ALLEN, CLAUDIUS DOCKERY, J. W. GRAHAM, LESLIE WEIL, WALTER MURPHY.

**1928:* R. H. LEWIS, C. L. SMITH, CHARLES WHEDBEE, J. S. MANNING, F. D. WINSTON.

* Term expires.

OFFICERS OF ADMINISTRATION

THE UNIVERSITY

Harry Woodburn Chase, Ph.D., LL.D., *President.*
Walter Dallam Toy, M.A., *Secretary of the Faculty.*
Thomas James Wilson, Jr., Ph.D., *Registrar.*
George Kenneth Grant Henry, Ph.D., *Assistant Registrar.*
Charles Thomas Woollen, *Business Manager.*
Julius Algernon Warren, *Treasurer and Bursar.*
Louis Round Wilson, Ph.D., *Librarian.*
Charles Melville Baker, A.M., B.L.S., *Assistant Librarian.*
Francis Foster Bradshaw, A.B., *Dean of Students.*
Mrs. Marvin Hendrix Stacy, *Adviser to Women.*
Robert Allison Fetzer, B.S., M.A., *Director of Athletics.*

THE COLLEGES AND SCHOOLS

James Finch Royster, Ph.D., *Dean of the College of Liberal Arts.*
Andrew Henry Patterson, A.M., *Dean of the School of Applied Science.*

Nathan Wilson Walker, Ed.M., *Acting-Dean of the School of Education and Director of the Summer Srhool.*

Claudius Temple Murchison, Ph.D., *Acting-Dean of the School of Commerce.*

Edwin Greenlaw, Ph.D., *Dean of the Graduate School.*
Merton Leroy Ferson, LL.B., A.M., *Dean of the School of Law.*
Isaac Hall Manning, M.D., *Dean of the School of Medicine.*
Edward Vernon Howell, A.B., Ph.G., *Dean of the School of Pharmacy.*

Gustave Maurice Braune, C.E., *Dean of the School of Engineering.*
Howard Washington Odum, Ph.D., *Director of the School of Public Welfare.*

THE EXTENSION DIVISION

CHESTER DEFOREST SNELL, B.H., B.S., *Director.*
EDGAR RALPH RANKIN, A.M., *Associate Director.*
GEORGE BASKERVILLE ZEHMER, M.A., *Associate Director.*

THE GYMNASIUM

ROBERT BAKER LAWSON, M.D., *Director.*

THE INFIRMARY

ERIC ALONZO ABERNETHY, S.B., M.D., *University Physician.*

YOUNG MEN'S CHRISTIAN ASSOCIATION

HARRY FULCHER COMER, B.S., *General Secretary.*

OFFICERS OF INSTRUCTION

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*
A.B., 1904, A.M., 1908 (Dartmouth); Ph.D., 1910 (Clark); LL.D. (Lenoir, Wake Forest, Georgia).

FRANCIS PRESTON VENABLE, Ph.D., D.Sc., LL.D., *Kenan Professor of Chemistry.*
A.M., Ph.D., 1881 (Goettingen); LL.D. (Pennsylvania, South Carolina, Alabama, Jefferson); D.Sc. (Lafayette).

WALTER DALLAM TOY, M.A., *Professor of the Germanic Languages and Literatures.*
M.A., 1882 (Virginia).

WILLIAM CAIN, A.M., LL.D., D.Sc., *Kenan Professor Emeritus of Mathematics.*
A.M., 1886 (N. C. Mil. Polyt. Inst.); LL.D. (South Carolina); D.Sc. (North Carolina).

HENRY HORACE WILLIAMS, A.M., B.D., *Kenan Professor of Philosophy.*
A.B., A.M., 1883 (North Carolina); B.D., 1888 (Yale).

HENRY VANPETERS WILSON, Ph.D., *Kenan Professor of Zoology.*
A.B., 1883, Ph.D., 1888 (Johns Hopkins).

COLLIER COBB, A.M., D.Sc., *Professor of Geology and Mineralogy.*
A.B., 1889, A.M., 1894 (Harvard); D.Sc. (Wake Forest).

CHARLES STAPLES MANGUM, A.B., M.D., *Professor of Anatomy.*
A.B., 1891 (North Carolina); M.D., 1894 (Jefferson Medical College).

EDWARD VERNON HOWELL, A.B., Ph.G., *Professor of Pharmacy and Dean of the School of Pharmacy.*
A.B., 1892 (Wake Forest); Ph.G., 1894 (Philadelphia College of Pharmacy).

MARCUS CICERO STEPHENS NOBLE, *Professor of Pedagogy and Dean of the School of Education.*
Student (Davidson and North Carolina).

ISAAC HALL MANNING, M.D., *Professor of Physiology and Dean of the School of Medicine.*
Student, 1882-1886 (North Carolina); M.D., 1897 (Long Island College of Medicine).

*GEORGE HOWE, Ph.D., *Professor of the Latin Language and Literature.*
A.B., 1897 (Princeton University); A.M., Ph.D., 1903 (Halle).

NATHAN WILSON WALKER, A.B., Ed.M., *Professor of Secondary Education, Director of the Summer School, and Acting-Dean of the School of Education.*
A.B., 1903 (North Carolina); Ed.M., 1921 (Harvard).

* Absent on leave, 1924-1925.

WILLIAM DEBERNIERE MACNIDER, M.D., *Kenan Research Professor of Pharmacology.*
M.D., 1903 (North Carolina).

WILLIAM CHAMBERS COKER, Ph.D., *Kenan Professor of Botany.*
B.S., 1894 (South Carolina); Ph.D., 1901 (Johns Hopkins).

ARCHIBALD HENDERSON, Ph.D., D.C.L., LL.D., *Professor of Mathematics.*
A.B., 1898, A.M., 1899, Ph.D., 1902 (North Carolina); Ph.D., 1915 (Chicago); D.C.L., (University of the South); LL.D., (Tulane).

JOSEPH GREGOIRE DEROULHAC HAMILTON, Ph.D., *Kenan Professor of History and Government.*
M.A., 1900 (University of the South); Ph.D., 1906 (Columbia).

ANDREW HENRY PATTERSON, A.M., *Professor of Physics and Dean of the School of Applied Science.*
Ph.B., B.E., 1891 (North Carolina); A.B., 1892, A.M., 1893 (Harvard).

HENRY MCGILBERT WAGSTAFF, Ph.D., *Professor of History.*
Ph.B., 1899 (North Carolina); Ph.D., 1906 (Johns Hopkins).

PATRICK HENRY WINSTON, *Professor of Law.*
Graduate, 1905 (United States Military Academy); Student of Law, 1905 (North Carolina); Student of Law, 1910 (Michigan).

WILLIAM MORTON DEY, Ph.D., *Professor of the Romance Languages and Literatures.*
B.A., M.A., 1902 (Virginia); A.M., 1904, Ph.D., 1906 (Harvard).

ATWELL CAMPBELL MCINTOSH, A.M., *Professor of Law.*
A.B., 1881, A.M., 1887 (Davidson).

ALVIN SAWYER WHEELER, Ph.D., *Professor of Organic Chemistry.*
A.B., 1890 (Beloit); A.M., 1897, Ph.D., 1900 (Harvard).

LOUIS ROUND WILSON, Ph.D., *Kenan Professor of Library Administration and Librarian.*
A.B., 1899, A.M., 1902, Ph.D., 1905 (North Carolina).

PARKER HAYWARD DAGGETT, S.B., *Professor of Electrical Engineering.*
S.B., 1910 (Harvard).

JAMES MUNSIE BELL, Ph.D., *Smith Professor of Chemistry.*
B.A., 1902, M.A., 1905 (Toronto); Ph.D., 1905 (Cornell).

EDWIN GREENLAW, Ph.D., *Kenan Professor of English and Dean of the Graduate School.*
A.B., 1897, A.M., 1898 (Northwestern); A.M., 1903, Ph.D., 1904 (Harvard).

JAMES BELL BULLITT, A.M., M.D., *Professor of Pathology.*
A.B., 1894, A.M., 1895 (Washington and Lee); M.D., 1897 (Virginia).

THOMAS JAMES WILSON, JR., Ph.D., *Registrar.*
A.B., 1894, A.M., 1896, Ph.D., 1898 (North Carolina).

Eugene Cunningham Branson, A.M., Litt.D., *Kenan Professor of Rural Social Economics.*
A.M., 1894 (Trinity); A.M., 1899 (Peabody Normal); Litt.D., 1919 (Georgia).

*Dudley deWitt Carroll, M.A., *Professor of Economics and Dean of the School of Commerce.*
A.B., 1907 (Guilford); A.B., 1908 (Haverford); M.A., 1915 (Columbia).

Frederick Henry Koch, A.M., *Professor of Dramatic Literature.*
A.B., 1900 (Ohio Wesleyan); A.M., 1909 (Harvard).

John Emery Lear, E.E., *Professor of Electrical Engineering.*
B.S., in E.E., 1901 (Virginia Polytechnic); E.E., 1909 (Texas Agricultural and Mechanical).

Norman Foerster, A.M., *Professor of English.*
A.B., 1910 (Harvard); A.M., 1912 (Wisconsin).

John Grover Beard, Ph.G., *Professor of Pharmacy.*
Ph.G., 1909 (North Carolina).

Edgar Wallace Knight, Ph.D., *Professor of Rural Education.*
A.B., 1909, A.M., 1911 (Trinity); Ph.D., 1913 (Columbia).

Paul John Weaver, B.A., A.A.G.O., *Professor of Music.*
B.A., 1911 (Wisconsin); A.A.G.O., 1918 (New York).

William Frederick Prouty, Ph.D., *Professor of Stratigraphic Geology.*
B.S., 1903, M.S., 1904 (Syracuse); Ph.D., 1906 (Johns Hopkins).

Howard Washington Odum, Ph.D., *Kenan Professor of Sociology and Director of the School of Public Welfare.*
A.B., 1904 (Emory); A.M., 1906 (Mississippi); Ph.D., 1909 (Clark); Ph.D., 1910 (Columbia).

William Stanley Bernard, A.M., *Professor of Greek.*
A.B., 1900, A.M., 1904 (North Carolina).

John Manning Booker, Ph.D., *Professor of English.*
A.B., 1901 (Johns Hopkins); Ph.D., 1912 (Heidelberg).

Oliver Towles, Ph.D., *Professor of French.*
A.B., 1906 (Virginia); Ph.D., 1912 (Johns Hopkins).

Thomas Felix Hickerson, A.M., S.B., *Professor of Civil Engineering.*
Ph.B., 1904, A.M., 1907 (North Carolina); S.B., 1909 (Massachusetts Institute of Technology).

*William Whatley Pierson, Jr., Ph.D., *Professor of History and Government.*
A.B., 1910, A.M., 1911 (Alabama); A.M., 1912, Ph.D., 1916 (Columbia).

John Frederick Dashiell, Ph.D., *Professor of Psychology.*
B.S., 1908, B.L., 1909 (Evansville); A.M., 1910, Ph.D., 1913 (Columbia).

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* Absent on leave, 1924-1925, on the Kenan Foundation.

JESSE FREDERICK STEINER, Ph.D., *Professor of Social Technology.*
A.B., 1901 (Heidelberg [Ohio]); A.M., 1913 (Harvard); Ph.D., 1915 (Chicago).

STURGIS ELLENO LEAVITT, Ph.D., *Professor of Spanish.*
A.B., 1908 (Bowdoin); A.M., 1913, Ph.D., 1917 (Harvard).

JAMES FINCH ROYSTER, Ph.D., *Kenan Professor of English Philology and Dean of the College of Liberal Arts.*
A.B., 1900 (Wake Forest); Ph.D., 1907 (Chicago).

ROBERT DIGGS WIMBERLY CONNOR, Ph.B., *Kenan Professor of History and Government.*
Ph.B., 1899 (North Carolina).

GUSTAVE MAURICE BRAUNE, C.E., *Professor of Civil Engineering and Dean of the School of Engineering.*
B.S., 1888 (Spring Hill); C.E. (Dipl. Ing.), 1895 (Royal Polytechnical Institute, Dresden, Saxony).

THORNTON SHIRLEY GRAVES, Ph.D., *Professor of English.*
A.B., 1906 (Texas Christian); Ph.B., 1907, Ph.D., 1912 (Chicago).

KENT JAMES BROWN, Ph.D., *Professor of German.*
A.B., 1901 (Dickinson); Ph.D., 1905 (Pennsylvania).

CLAUDIUS TEMPLE MURCHISON, Ph.D., *Professor of Applied Economics and Acting-Dean of the School of Commerce.*
A.B., 1911 (Wake Forest); Ph.D., 1919 (Columbia).

ROBERT ERVIN COKER, Ph.D., *Professor of Zoology.*
S.B., 1896, S.M., 1897 (North Carolina); Ph.D., 1906 (Johns Hopkins).

MARION REX TRABUE, Ph.D., *Professor of Educational Administration.*
A.B., 1911 (Northwestern); A.M., 1914, Ph.D., 1915 (Columbia).

GEORGE MCFARLAND MCKIE, A.M., *Professor of Public Speaking.*
Graduate, 1898 (Emerson College of Oratory); A.B., A.M., 1907 (North Carolina).

WALTER JEFFRIES MATHERLY, M.A., *Professor of Business Administration.*
B.A., 1915 (William Jewell); M.A., 1916 (Washington University).

ERLE EWART PEACOCK, A.B., M.B.A., *Professor of Accounting.*
A.B., 1914 (Georgia); M.B.A., 1916 (Harvard).

HARRY WOLVEN CRANE, Ph.D., *Professor of Psychology.*
A.B., 1909, M.A., 1910, Ph.D., 1913 (Michigan).

THOMAS LATIMER KIBLER, Ph.D., *Professor of Economics and Transportation.*
A.B., 1904 (Randolph-Macon); M.A., 1909, Ph.D., 1913 (George Washington).

ARTHUR MELVILLE JORDAN, Ph.D., *Professor of Educational Psychology.*
A.B., 1907 (Randolph-Macon); A.M., 1909 (Trinity); Ph.D., 1919 (Columbia).

Esek Ray Mosher, Ed.D., *Professor of Education.*
A.B., 1903 (Minnesota); A.M., 1907 (Western Reserve); Ed.M., 1921, Ed.D., 1924 (Harvard).

Thorndike Saville, A.B., C.E., *Professor of Hydraulic and Sanitary Engineering.*
A.B., 1914 (Harvard); B.S., 1914, C.E., 1915 (Dartmouth); M.S., 1917 (Harvard); M.S., 1917 (Mass. Inst. Technology).

John Wayne Lasley, Jr., Ph.D., *Professor of Pure Mathematics.*
A.B., 1910, A.M., 1911 (North Carolina); Ph.D., 1920 (Chicago).

Allan Wilson Hobbs, Ph.D., *Professor of Applied Mathematics.*
A.B., 1907 (Guilford); A.B., 1908 (Haverford); Ph.D., 1917 (Johns Hopkins).

Wesley Critz George, Ph.D., *Professor of Histology and Embryology.*
A.B., 1911, A.M., 1912, Ph.D., 1918 (North Carolina).

Otto Stuhlman, Jr., Ph.D., *Professor of Physics.*
B.A., 1907 (Cincinnati); M.A., 1909, (Illinois); Ph.D., 1911 (Princeton).

Merton Leroy Ferson, Ph.B., LL.B., A.M., *Professor of Law and Dean of the School of Law.*
Ph.B., 1900, LL.B., 1901, A.M., 1905 (Iowa).

Gerald White Johnson, A.B., *Professor of Journalism.*
A.B., 1911 (Wake Forest).

Paul Washington Terry, Ph.D., *Professor of Education.*
B.S., 1909 (Vanderbilt); M.A., 1915 (Columbia); Ph.D., 1920 (Chicago).

Francis Foster Bradshaw, A.B., *Dean of Students.*
A.B., 1916 (North Carolina).

Robert Baker Lawson, M.D., *Associate Professor of Applied Anatomy.*
M.D., 1902 (Maryland).

James Talmadge Dobbins, Ph.D., *Associate Professor of Chemistry.*
A.B., 1911, A.M., 1912, Ph.D., 1914 (North Carolina).

Gustave Adolphus Harrer, Ph.D., *Associate Professor of Latin.*
A.B., 1910, Ph.D., 1913 (Princeton).

*Frank Porter Graham, M.A., *Associate Professor of History.*
A.B., 1909 (North Carolina); M.A., 1916 (Columbia).

Clarence Addison Hibbard, M.A., *Associate Professor of English.*
B.A., 1909, M.A., 1919 (Wisconsin).

Charles Melville Baker, A.M., B.L.S., *Associate Professor of Library Administration and Assistant Librarian.*
A.B., 1910, A.M., 1911 (Harvard); B.L.S., 1918 (New York State Library School).

Frank Carl Vilbrandt, Ph.D., *Associate Professor of Industrial Chemistry.*
A.B., 1915, M.A., 1916, Ph.D., 1919 (Ohio State).

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* Absent on leave, 1924-1925.

HAROLD DIEDRICH MEYER, A.M., *Associate Professor of Sociology and Supervisor of Field Work.*
A.B., 1912, A.M., 1916 (Georgia).

*HAROLD FREDERICK JANDA, C.E., *Associate Professor of Highway Engineering.*
C.E., 1916 (Wisconsin).

WALLACE EVERETT CALDWELL, Ph.D., *Associate Professor of History.*
A.B., 1910 (Cornell); Ph.D., 1919 (Columbia).

HENRY DEXTER LEARNED, Ph.D., *Associate Professor of Romance Languages.*
A.B., 1912, Ph.D., 1917 (Pennsylvania).

ERICH WALTER ZIMMERMAN, Ph.D., *Associate Professor of Commerce and Resources.*
Student, 1903-1907 (Düsseldorf); Ph.D., 1911 (Bonn).

ELMER GEORGE HOEFER, M.E., *Associate Professor of Mechanical Engineering.*
B.S. in M.E., 1905, M.E., 1915 (Wisconsin).

EDMUND BROWN, JR., Ph.D., *Associate Professor of Marketing.*
B.A., 1912 (Amherst); A.M., 1915, Ph.D., 1922 (Columbia).

**SAMUEL HUNTINGTON HOBBS, JR., A.M., *Associate Professor of Rural Economics and Sociology.*
A.B., 1916, A.M., 1917 (North Carolina).

WILLIAM FLINT THRALL, Ph.D., *Associate Professor of English.*
A.B., 1901, A.M., 1902 (McKendree); A.M., 1915, Ph.D., 1920 (Chicago).

HOWARD RUSSELL HUSE, Ph.B., *Associate Professor of Romance Languages.*
Ph.B., 1913 (Chicago).

ROBERT HASLEY WETTACH, A.M., S.J.D., *Associate Professor of Law*
A.B., 1913, A.M., 1914, LL.B., 1917 (Pittsburgh); S.J.D., 1921 (Harvard).

WILLARD EARL ATKINS, J.D., *Associate Professor of Business Law.*
Ph.B., 1914, M.A., 1916, J.D., 1918 (Chicago).

CHESTER PENN HIGBY, Ph.D., *Associate Professor of History.*
A.B., 1908, A.M., 1909 (Bucknell); Ph.D., 1919 (Columbia).

DANIEL ALLAN MACPHERSON, M.S., *Associate Professor of Bacteriology.*
Ph.B., 1919, M.S., 1920 (Brown).

ARTHUR SIMEON WINSOR, A.M., *Associate Professor of Mathematics.*
A.B., 1914, A.M., 1915 (Mount Allison).

ALBERT SHAPIRO, Ph.D., *Associate Professor of Spanish.*
A.B., 1914, A.M., 1914, Ph.D., 1916 (Harvard).

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* Absent on leave, 1924-1925.

** Absent on leave, winter quarter 1925.

Edward Vernon Kyser, Ph.G., Ph.C., *Associate Professor of Pharmacy.*
Ph.G., 1915, Ph.C., 1924 (North Carolina).

John Brooks Woosley, A.M., *Professor of Economics.*
A.B., 1912 (Guilford); A.B., 1913, A.M., 1914 (Haverford).

Frank Smithies Rowley, A.B., LL.M., *Associate Professor of Law.*
A.B., 1922, LL.B., 1923, LL.M., 1924 (George Washington).

Ruskin Raymond Rosborough, Ph.D., *Acting-Associate Professor of Latin.*
A.B., 1915 (Stetson); A.M., 1916, Ph.D., 1920 (Pennsylvania).

Francis Butler Simkins, A.M., *Acting-Associate Professor of History.*
A.B., 1918 (South Carolina); A.M., 1920 (Columbia).

Philip Kingsland Schuyler, B.S., *Acting-Associate Professor of Highway Engineering.*
B.S., 1921 (Wisconsin).

Herman Henry Staab, M.A., *Assistant Professor of Romance Languages.*
B.A., M.A., 1912 (University of the South).

*Ernest Lloyd Mackie, A.M., *Assistant Professor of Mathematics.*
A.B., 1917 (North Carolina); A.M., 1920 (Harvard).

Corydon Perry Spruill, Jr., A.B., B.Litt. (Oxon.), *Assistant Professor of Economics.*
A.B., 1920 (North Carolina); B.Litt., 1922 (Oxford).

Edward Tankard Browne, A.M., *Assistant Professor of Mathematics.*
A.B., 1915, A.M., 1917 (Virginia).

Henry Roland Totten, Ph.D., *Assistant Professor of Botany.*
A.B., 1913, A.M., 1914, Ph.D., 1923 (North Carolina).

Ernst Christian Paul Metzenthin, Ph.D., *Assistant Professor of German.*
A.M., 1913 (Pennsylvania State); Ph.D., 1915 (Pennsylvania).

Floyd Harris Edminster, Ph.D., *Assistant Professor of Chemistry.*
B.S., 1912 (Syracuse); M.S., 1913 (Louisiana State); Ph.D., 1918 (Syracuse).

Joel Howard Swartz, Ph.D., *Assistant Professor of Geology.*
A.B., 1915, Ph.D., 1923 (Johns Hopkins).

*Wiley Britton Sanders, A.M., *Assistant Professor of Sociology.*
A.B., 1919 (Emory College); A.M., 1920 (Emory University); A.M., 1921 (North Carolina).

Albert Ray Newsome, M.A., *Assistant Professor of History.*
A.B., 1915 (North Carolina); M.A., 1922 (Michigan).

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* Absent on leave, 1924-1925.

SHIPP GILLESPIE SANDERS, A.M., *Assistant Professor of Latin.*
A.B., 1909 (Southwestern); A.M., 1915 (Princeton).

ALBERT COATES, A.B., LL.B., *Assistant Professor of Law.*
A.B., 1918 (North Carolina); LL.B., 1923 (Harvard).

PAUL ELLIOTT GREEN, A.B., *Assistant Professor of Philosophy.*
A.B., 1921 (North Carolina).

ALMONTE CHARLES HOWELL, Ph.D., *Assistant Professor of English.*
A.B., 1917 (Denison); M.A., 1920 (Columbia); Ph.D., 1924 (North Carolina).

GEORGE WALLACE SMITH, S.B., *Assistant Professor of Engineering.*
S.B., in Electrical Engineering, 1916 (North Carolina).

NICHOLSON BARNEY ADAMS, Ph.D., *Assistant Professor of Spanish.*
A.B., 1915 (Washington and Lee); M.A., 1920, Ph. D., 1922 (Columbia).

ROBERT IRVING LITTLE, Ph.D., *Assistant Professor of French.*
A.B., 1901 (Alabama); A.M., 1912, Ph.D., 1918 (Harvard).

EARLE KEITH PLYLER, Ph.D., *Assistant Professor of Physics.*
B.A., 1917, M.A., 1918 (Furman); Ph.D., 1924 (Cornell).

GREGORY LANSING PAINE, Ph.D., *Assistant Professor of English.*
Ph.B., 1914, A.M., 1920, Ph.D., 1924 (Chicago).

KEENER CHAPMAN FRAZER, A.M., *Assistant Professor of Government.*
A.B., 1920 (Wofford); A.M., 1921 (North Carolina).

JOE BURTON LINKER, Ph.D., *Assistant Professor of Mathematics.*
A.B., 1918, A.M., 1920 (North Carolina); Ph.D., 1924 (Johns Hopkins).

SAMUEL MCCLELLAN BUTT, A.M., *Assistant Professor of Philosophy.*
A.B., 1917, A.M., 1918 (Princeton).

MALCOLM DEAN TAYLOR, A.B., M.B.A., *Assistant Professor of Sales Relations.*
A.B., 1921 (Oberlin); M.B.A., 1923 (Harvard).

THOMAS COMPTON PAKENHAM, D.Phil., *Assistant Professor of Economics.*
D.Phil., 1919 (London).

JOSEPH MERRITT LEAR, M.A., *Assistant Professor of Insurance.*
A.B., 1900, A.M., 1902 (Randolph-Macon); M.A., 1915 (Columbia).

BENJAMIN ALONZO STEVENS, M.A., *Assistant Professor of Education.*
B.P., 1914 (Wisconsin); M. A., 1923 (Columbia).

HAYWOOD MAURICE TAYLOR, Ph.D., *Instructor in Pharmaceutical Chemistry.*
S.B. in Chemistry, 1920, S.M., 1921, Ph.D., 1924 (North Carolina).

WILLIAM DOUGALD MACMILLAN, 3d., A.M., *Instructor in English.*
A.B., 1918, A.M., 1920 (North Carolina).

FRANK JOHN HARONIAN, M.A., *Instructor in French.*
A.B., 1908 (College des Mechitharistes [Constantinople]); M.A., 1921 (Columbia).

Martin Kahao Brooks, A.M., *Instructor in Romance Languages.*
A.B., 1911, A.M., 1912 (Kansas).

Harry Sylvanus VanLandingham, M.A., *Instructor in French.*
B.A., 1912, M.A., 1916 (Richmond).

John Fenton Daugherty, A.B., *Instructor in Physics.*
A.B., 1921 (Dickinson).

Gerald Raleigh MacCarthy, A.M., *Instructor in Geology.*
A.B., 1921 (Cornell); A.M., 1924 (North Carolina).

Horace Downs Crockford, S.M., *Instructor in Chemistry.*
B.S., 1920 (N. C. State College of Agriculture and Engineering); S.M., 1923 (North Carolina).

Raymond William Adams, A.M., *Instructor in English.*
A.B., 1920 (Beloit); A.M., 1921 (North Carolina).

John Nathaniel Couch, Ph.D., *Instructor in Botany.*
A.B., 1919, A.M., 1922, Ph.D., 1924 (North Carolina).

Clayton Carr Edwards, A.B., *Instructor in Mathematics.*
A.B., 1922 (North Carolina).

Robert Russell Potter, A.M., *Instructor in English.*
A.B., 1921 (Denver); A.M., 1922 (Colorado).

Theodore Frank Fitch, A.B., *Instructor in Music.*
A.B., 1922 (Rochester).

Frank Thornber Thompson, A.M., *Instructor in English.*
A.B., 1922, A.M., 1923 (North Carolina).

Henry Thomas Shanks, A.M., *Instructor in History.*
A.B., 1918, A.M., 1920 (Wake Forest); A. M., 1923 (Chicago).

Rosser Howard Taylor, A.M., *Instructor in History.*
A.B., 1916 (Wake Forest); A.M., 1920, (North Carolina).

Delbert Harold Gilpatrick, A.M., *Instructor in History.*
A.B., 1914 (Stetson); A.M., 1920 (Columbia).

John Milton Williams, B.A., (Oxon.), A.M., *Instructor in English.*
B.A., 1921 (Oxford); A.M., 1923 (Harvard).

William Olsen, A.B., *Instructor in English.*
A.B., 1923 (Cornell).

Lonnie Ray Sides, A.M., *Instructor in Music.*
A.B., 1920 (Elon); A.M., 1924 (North Carolina).

Charles Frederick Hard, A.M., *Instructor in Music.*
A.B., 1922 (University of the South); A.M., 1924 (North Carolina).

Ralph McCoy Trimble, C.E., *Instructor in Civil Engineering.*
C.E., 1921 (Virginia).

John Coriden Lyons, M.A., *Instructor in French.*
B.S., 1920, M.A., 1921 (William and Mary).

William White Rogers, A.M., *Instructor in Psychology.*
A.B., 1912, A.M., 1924 (North Carolina).

GEORGE VERNON DENNY, S.B., *Instructor in English.*
S.B. in Commerce, 1922 (North Carolina).

FREDERICK PHILIPS BROOKS, S.M., *Instructor in Bio-Chemistry.*
S.B. in Chemistry, 1921, S.M., 1922 (North Carolina).

PAUL MILTON GRAY, S.B., *Instructor in Electrical Engineering.*
S.B. in Electrical Engineering, 1922 (North Carolina).

SHERMAN BRYAN SMITHEY, A.B., *Instructor in Mathematics.*
A.B., 1917 (North Carolina).

MICHAEL ARENDELL HILL, JR., A.M., *Instructor in Mathematics.*
A.B., 1920, A.M., 1921 (North Carolina).

ROLAND PRINCE MCCLAMROCH, A.M., *Instructor in English.*
A.B., 1920, A.M., 1922 (North Carolina).

A. THEODORE JOHNSON, M.A., *Instructor in English.*
A.B., 1914 (Westminster); M.A., 1917 (Virginia).

JOHN MINOR GWYNN, A.B., *Instructor in Latin.*
A.B., 1918 (North Carolina).

JEFFERSON CARNEY BYNUM, S.B., *Instructor in Geology.*
S. B. in Geology, 1920 (North Carolina).

NORMAN CURTIS GIDDINGS, A.M., *Instructor in Romance Languages.*
A.B., 1919 (Hamilton); A.M., 1920 (Harvard).

MOSES KILLEBREW HEARNE, S.B., *Instructor in Accounting.*
S.B. in Commerce, 1924 (North Carolina).

EDGAR TRISTRAM THOMPSON, M.A., *Instructor in Rural Social Economics.*
A.B., 1922 (South Carolina); A.M., 1924 (Missouri).

PAUL FREDERICK SAINTONGE, A.B., *Instructor in French.*
A.B., 1924 (Harvard).

CHASE HOWARD BENSON, A.M., *Instructor in Mathematics.*
A.B., 1921 (Trinity); A.M., 1924 (North Carolina).

JOHN LEROY SMITH, A.M., *Instructor in French.*
A.B., 1917, A.M., 1924 (North Carolina).

CHARLES ROBERTS HARRIS, M.S., *Instructor in Chemistry.*
S.B. in Chemistry, 1921 (North Carolina); M.S., 1923 (Tulane).

EARLE DEWITT JENNINGS, S.M., *Instructor in Chemistry.*
S.B. in Chemistry, 1922, S.M., 1924 (North Carolina).

STERLING AUBREY STOUDEMIRE, A.M., *Instructor in Spanish.*
A.B., 1923, A.M., 1924 (North Carolina).

JOHNSTON VANNOY MCCALL, A.B., *Instructor in Spanish.*
A.B., 1924 (North Carolina).

CLARENCE CLIFFORD NORTON, M.A., *Instructor in History.*
B.S., 1919 (Millsaps); M.A., 1920 (Emory).

PHILIP LOVIN ELLIOTT, B.A., *Instructor in English.*
B.A., 1919 (Wake Forest).

Benjamin Benson Lane, A.M., *Instructor in English.*
A.B., 1899, A.M., 1901 (North Carolina).

John Fred Jost, A.M., *Instructor in German.*
B.D., 1914 (Eden Theol. Sem.); A.M., 1924 (Harvard).

Earnest William Atkins, A.M., *Instructor in Psychology.*
A.B., 1920 (West Texas); A.M., 1921 (North Carolina).

John Nelson Coffey, *Instructor in Engineering.*

TEACHING FELLOWS, 1924-1925

James Vernon Harvey, B.A., *Botany.*
William Everett Giles, A.B., A.M., *Chemistry.*
George Moseley Murphy, S.B., *Chemistry.*
Thomas Tipton Walker, B.S., *Chemistry.*
John Bee Padgett, B.S., *Civil Engineering.*
Robert Byerly Eutsler, S.B., *Economics.*
George Edgar Newby, Jr., A.B., *Economics and Commerce.*
Charles Gordon Reeves, A.B., *Economics and Commerce.*
William Oscar Hampton, B.S. in Educ., *Education.*
Abner Wellington Kelly, A.M., *English.*
Wilbur White Stout, A.M., *English.*
Louis Booker Wright, A.M., *English.*
Herman Jennings Bryson, A.B., *Geology.*
William Pew Brandon, Ph.B., *History.*
William Sumner Jenkins, A.B., *History.*
James Welch Patton, A.B., *History.*
John Reagan Abernethy, A.B., *Mathematics.*
Vinton Asbury Hoyle, A.B., *Mathematics.*
William Murray Linker, A.B., *Psychology.*
Hermon Wilkes Martin, A.M., *Psychology.*
Lewis Bellinger Stabler, A.B., *Romance Languages.*
Coyle Ellis Moore, B.S., *Sociology.*
James Theophilus Penney, A.B., *Zoology.*

STUDENT ASSISTANTS, 1924-1925

Alma Holland, *Assistant in Botany.*
Edwin Brenton Shaw, *Assistant in Botany.*
Henry Travis Thompson, *Assistant in Botany.*
Lillie Fielding Poisson Cutlar, S.B., *Assistant in Chemistry.*
Wilton Robinson Earle, S.M., *Assistant in Chemistry.*
Ralph Milledge Byrd, B.S., *Assistant in Chemistry.*
Richard Arthur Lineberry, B.S., *Assistant in Chemistry.*
Boyce Galloway Carson, A.B., *Assistant in Chemistry.*
Samuel Cornette Collins, M.S., *Assistant in Chemistry.*
Vance Benton Rollins, *Assistant in Chemistry.*
Wycliffe Commandeur Quinby, *Assistant in Chemistry.*
William Marion Mebane, *Assistant in Chemistry.*

CLARENCE DAVIS SCHIFFMAN, *Assistant in Chemistry.*
WILLIAM ERNEST BIRD, A.M., *Assistant in English.*
WILLIAM STANFORD WEBB, B.A., *Assistant in English.*
EUGENE MOREHEAD ARMFIELD, *Assistant in French.*
KENNETH GEORGE DACY, *Assistant in Geology.*
CLAUDE STUART JOHNSON, *Assistant in Geology.*
CLARENCE EDMUND MILLER, *Assistant in Geology.*
HARRY RICHARD SEIWELL, *Assistant in Geology.*
JOSEPH HENRY WATKINS, *Assistant in Geology.*
FRANCIS CHARLES ANSCOMBE, A.M., *Assistant in History.*
ELBERT DWIGHT APPLE, *Assistant in the Library.*
WILLIAM SCOTT BERRYHILL, *Assistant in the Library.*
BINGHAM ROBERT DOWNS, *Assistant in the Library.*
ERNEST FRANKLIN, *Assistant in the Library.*
ALFONSO GREER GLENN, *Assistant in the Library.*
CLARENCE WINDLEY HALL, *Assistant in the Library.*
MARVIN LEE INGRAM, *Assistant in the Library.*
JULIAN BLAIR MEREDITH, *Assistant in the Library.*
MARVIN ALVIN MILLER, *Assistant in the Library.*
HOOSIG HAMBARTSUM SERUNIAN, *Assistant in the Library.*
BROADUS BRYAN WRIGHT, *Assistant in the Library.*
OSCAR DAVID BIDDY, *Assistant in Pharmacy.*
EARL HENRY TATE, *Assistant in Pharmacy.*
HAL MARVIN WINDERS, *Assistant in Pharmacy.*
EDGAR ALTAS FARRELL, *Assistant in Physics.*
WALTER DARE HARRELL, *Assistant in Physics.*
ROBERT MOIR SMITH, *Assistant in Physics.*
RUDOLPH SAMUEL MATTHEWS, *Assistant in Psychology.*
JOHN MICKLE BREWER, *Assistant in Zoology.*
JOY VERLE SYKES, *Assistant in Zoology.*
ROBERT HERRING WRIGHT, JR., *Assistant in Zoology.*

FACULTY COMMITTEES

The President is a member *ex officio* of all committees.

ADVISORY *(elected)*. Professors Wilson, L. R., Royster, Greenlaw, Coker, W. C., Connor.

EXECUTIVE *(elected)*. Professors Patterson, Bell, Bernard, Daggett, Hibbard.

ATHLETICS. Professors Hobbs, A. W., Connor, Howell, Lawson, Patterson, Hibbard, Jordan.

CHAPEL. Mr. Bradshaw, Professors Bernard, Mangum, Odum, Meyer, Coates, Weaver, Steiner, Mr. Comer.

COOPERATION WITH THE ALUMNI. Professors Connor, Patterson, Wilson, L. R., Bernard, Coates.

DEBATES. Professors Williams, Bernard, McKie, Atkins, Coates.

Degrees with Distinction. Professors Greenlaw, Daggett, Hamilton, Henderson, Howe, Toy, Wilson, H. V., Carroll.

Dramatics. Professors Koch, Howe, Daggett, Greenlaw, Weaver, Wheeler, McKie.

English Composition. Professors Thrall, Bell, Carroll, Foerster, Leavitt, Pierson.

Educational Policy. The President, Professors Carroll, Coker, W. C., Daggett, Greenlaw, Howe, Knight, Pierson, Royster, Walker.

Entrance Requirements. Professors Walker, Knight, Daggett, Caldwell, Royster, The Registrar.

Faculty Living Conditions. Professors Wagstaff, Carroll, Bell, Branson, Daggett, Henry, Wheeler, Wilson, L. R., Mr. Woollen.

Grounds and Buildings. Professors Coker, W. C., MacNider, Wheeler, Booker, Odum, Braune, Mr. Woollen.

Health and Sanitation. Doctor Abernethy, Professors Braune, Bullitt, Saville, Mr. Woollen.

Library Book Committee. Professors Wilson, L. R., Coker, W. C., Bernard, Foerster, Dey, Murchison, Higby.

Library Budget. The Librarian, the Deans of the College, the Schools of Applied Science, Commerce, Engineering, Education, and the Graduate School, the President.

McNair Lectures. Professors Williams, MacNider, Steiner, Bell, Henderson.

Public Lectures. Professors Royster, MacNider, Coker, W. C., Henderson, Foerster.

Public Occasions and Celebrations. Professors Henderson, Hamilton, Wheeler, Howe, Connor, Mangum, Knight, Patterson, Mr. Woollen.

Student Employment. Mr. Bradshaw, Professors Bell, Toy, Hobbs, A. W., Connor.

Student Life and Activities. Mr. Bradshaw, Professors Booker, Bernard, Weaver, Hibbard, Matherly, Meyer, Mrs. Stacy.

Student Mortality. Professors Trabue, Royster, Jordan, Dashiell, Hibbard, Bradshaw, Lasley, the Registrar.

University Sermons. Professors Toy, Wheeler, Cobb, Knight, Odum.

Weil Lectures. Professors Odum, Connor, Johnson, Murchison, Wilson, L. R.

PART TWO—GENERAL INFORMATION

THE UNIVERSITY
GROUNDS AND BUILDINGS
LIBRARY
THE UNIVERSITY PRESS
ADMISSION
EXPENSES
PECUNIARY AID
MEDALS AND PRIZES
REGULATIONS
STUDENT GOVERNMENT
PUBLIC LECTURES
UNIVERSITY ORGANIZATIONS
THE ASSOCIATIONS OF THE ALUMNI

THE UNIVERSITY

FOUNDATION AND GOVERNMENT

The University was established in obedience to the first Constitution of the State, which was adopted in December, 1776. A clause of section XLI declared that "all useful learning shall be duly encouraged, and promoted in one or more universities." The charter was granted by the General Assembly in 1789, the cornerstone of the Old East Building was laid in 1793, and the University was opened in 1795.

The title, preamble, and first section of the Act of Incorporation are as follows:

"AN ACT TO ESTABLISH A UNIVERSITY IN THIS STATE"

"Whereas in all well regulated Governments, it is the indispensable Duty of every Legislature to consult the Happiness of a rising Generation, and endeavor to fit them for an honorable Discharge of the Social Duties of Life, by paying the strictest attention to their Education: And whereas an University supported by permanent Funds, and well endowed, would have the most direct Tendency to answer the above Purpose:

"I. *Be it therefore enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the Authority of the Same, That, Samuel Johnson, James Iredell, Charles Johnson, Hugh Williamson, Stephen Cabarrus, Richard Dobbs Spaight, William Blount, Benjamin Williams, John Sitgreaves, Frederick Harget, Robert Snead, Archibald Maclaine,* Honourable *Samuel Ashe, Robert Dixon, Benjamin Smith,* Honourable *Samuel Spencer, John Hay,*

James Hogg, Henry William Harrington, William Barry Grove, Reverend *Samuel McCorkle, Adlai Osborne, John Stokes, John Hamilton, Joseph Graham,* Honourable *John Williams, Thomas Person, Alfred Moore, Alexander Mebane, Joel Lane, Willie Jones, Benjamin Hawkins, John Haywood,* senior, *John Macon, William Richardson Davie, Joseph Dixon, William Lenoir, Joseph M'Dowell, James Holland* and *William Porter Esquires,* shall be and they are hereby declared to be a body politic and corporate to be known and distinguished by the name of *The Trustees of the University of North Carolina** and by that name shall have perpetual Succession and a common Seal; and that they, the Trustees and their Successors, by the Name aforesaid, or a Majority of them, shall be able and capable in Law to take, demand, receive and possess all Monies, Goods and Chattels that shall be given them for the Use of the said University, and the same apply according to the Will of the Donors, and by Gift, Purchase or Devise to take, have, receive, possess, enjoy and retain to them and their Successors forever, any Lands, Rents, Tenements and Hereditaments, of what Kind, Nature or Quality soever the same may be, in special Trust and Confidence that the same or Profits thereof shall be applied to and for the Use and Purpose of establishing the said University."**

The University is governed by a board of trustees elected by the Legislature and is free from sectionalism, sectarian or political control. The Governor of the State is *ex officio* President of the Board of Trustees.

Article IV of the Constitution of 1876 contains the following provisions regarding the University:

"Sec. 6. The General Assembly shall have power to provide for the election of Trustees of the University of North Carolina, in whom, when chosen, shall be vested all the privileges, rights, franchise, and endowments thereof, in any wise granted to or conferred upon the Trustees of said University; and the General Assembly may make such provisions, laws, and regulations from time to time as may be necessary and expedient for the maintenance and management of said University.

"Sec. 7. The General Assembly shall provide that the benefits of the University, as far as practicable, be extended to the youth of the State free of expense for tuition; also all the property which has heretofore accrued to the State, or shall hereafter accrue, from escheats, unclaimed dividends, or distributive shares of the estates of deceased persons, shall be appropriated to the use of the University."

SITUATION AND GENERAL ADVANTAGES

The University is situated at Chapel Hill, twelve miles from Durham and thirty-eight miles from Raleigh. It may be reached by rail from University Junction, or by one of the automobile lines which maintain regular and frequent schedules from Durham. The site of the University is on a promontory of granite, belonging to the Laurentian system, about three hundred feet above the sandstone formation to the east that was once the bed of a great body of water. It is near the center of the State, midway between the mountains and the sea, with sufficient elevation to insure healthful and pleasant working conditions. The site has always been famed for its beauty. On this promontory the great roads from Petersburg to Pittsboro and from New

* The corporate name has been changed to The University of North Carolina.
** Laws of the State of North Carolina, published by James Iredell, Edenton, 1791.

Bern to Greensboro crossed. At the cross was a chapel of the Church of England, giving to the eminence its name, New Hope Chapel. The name "Chapel Hill" occurs in the report of the Trustees, November, 1792, on the choice of a site, and a contemporary account describes the site as follows:

"The seat of the University is on the summit of a very high ridge. . . . The ridge appears to commence about half a mile directly east of the building, where it rises abruptly several hundred feet. This peak is called Point Prospect. The flat country spreads out below like the ocean, giving an immense hemisphere in which the eye seems lost in the extent of space."

This account is equally valid to-day. The region abounds in hills, covered with magnificent trees, filled with springs and brooks, and with a profusion of mountain flowers. The campus, of about sixty-eight acres, is one of the most beautiful in America. The University owns, contiguous to the campus, five hundred acres of forest lands, partly laid off in walks and drives. The present buildings of the University, forty-two in number, range in age from the Old East dating to 1793 to the new dormitories erected on the east of the Raleigh road. A model central power plant provides heat, water, and electric lights for all the buildings. The infirmary is a modern building completely equipped and under the direction of the University physician. Records prove that health conditions at the University are excellent.

NEW BUILDING PROGRAM

The generous appropriations for permanent improvements made by the General Assembly of 1921 and that of 1923 have made it possible to begin work on the development of the South Campus. There are now completed seven new dormitories capable of housing eight hundred and forty students, a large building for the Departments of History and Social Sciences, a similar building for the Language Departments, and a handsome building for the School of Law. A commodious building, one hundred ten by three hundred ten feet for indoor athletics, has recently been completed. The new building for the Department of Chemistry and the Woman's Building are now under construction.

ORGANIZATION AND DEGREES

The University is organized into a College of Liberal Arts and seven Schools, which have jurisdiction over degrees as follows: The College of Liberal Arts, Bachelor of Arts, and jointly with the School of Law, Bachelor of Arts and Laws; the School of Applied Science, Bachelor of Science in Chemistry, in Geology, jointly with the School of Medicine, in Medicine, and jointly with the School of Pharmacy, in Pharmacy; the School of Education, Bachelor of Arts in Education; the School of Commerce, Bachelor of Science in Commerce; the School of Engineering, Bachelor of Science in Electrical Engineering, in Civil

Engineering, and in Mechanical Engineering; the Graduate School, Master of Arts, Master of Science, and Doctor of Philosophy; the School of Law, Bachelor of Laws, Bachelor of Arts and Laws (jointly with the College of Liberal Arts); the School of Medicine, Bachelor of Science in Medicine (jointly with the School of Applied Science); the School of Pharmacy, Graduate in Pharmacy and Bachelor of Science in Pharmacy (jointly with the School of Applied Science.)

The School of Public Welfare offers courses of professional training for social work and community leadership.

In the Summer School are offered certain courses for which regular University credit is allowed, as well as special courses designed primarily for the teachers of the state.

There is also a Division of Extension through which the services of the University Faculty and certain material equipment of the University are made available to the people of the state generally.

THE COLLEGE YEAR

The college year is divided into fall, winter, and spring quarters of approximately twelve weeks each, and a summer quarter divided into two terms of about six weeks each. There is a Thanksgiving recess of three days, a Christmas recess of approximately two weeks, and an Easter recess of seven days.

GENERAL CULTURE

Chapel Exercises are conducted in Memorial Hall, with the reading of the scriptures and singing, every week-day morning except Saturday, at 10:30 o'clock. Attendance is required of Freshmen five days a week and of Sophomores and Juniors on Mondays and Fridays. At this hour timely talks are given by different members of the Faculty and by others. Bible classes for young men are taught in each of the five churches of the village every Sunday. Religious services are held twice a week, or oftener, in each church. A series of sermons is delivered annually by the University preachers, chosen by a faculty committee from the various denominations. Bible lectures are delivered every Sunday morning in Gerrard Hall. The Young Men's Christian Association meets three times a week, for prayer and other services, and conducts a series of Bible courses, which are largely attended by the students.

DISCIPLINE

The University endeavors to make young men manly and self-reliant, and to develop character by educating the conscience. The Faculty may, at their discretion, admonish, suspend, or dismiss students for neglect of duty, or for misconduct.

PHYSICAL TRAINING

Hearty encouragement is given to athletic sports and to all kinds of physical culture. The Emerson Athletic Field, the gift of Mr. Isaac Emerson, of Baltimore, furnishes ample facilities for football and baseball, and the track is admirably adapted for running and general track athletics. A new field for class athletics has been completed recently and put into use. This field lies directly to the east of Emerson Field and serves the Freshmen teams and other class teams. More than fifty tennis courts are located on the campus. Systematic exercise under skilled instructors is offered to all students in the University.

Exercise is required three hours a week of all Freshmen, unless excused. In the fall a thorough physical examination of each Freshman is made, and the heart, the lungs, the eyes, and the ears, are tested, in order that students defective in physical development may be given special work under the personal supervision of the Director. Round shoulders, flat chests, curvature of the spinal column, hernia, and mild cases of congenital paralysis are thus often greatly benefited and sometimes completely corrected.

MEDICAL ATTENTION

In order to secure responsible and efficient medical advice and to provide proper attention for the student during sickness, the University employs a practising physician and maintains a well appointed infirmary. The Infirmary is equipped with all necessary conveniences and comforts, is under the immediate supervision of the University Physician, and is provided with two experienced nurses. At the discretion of the University Physician a student may be admitted to its wards, and for such services as may be rendered by the staff no charges are made, but should any additional service (consultation, special nurses, operations requiring the attendance of a trained surgeon) recommended by the attending physician and approved by the parent or guardian be necessary, the student will be required to pay for such services.

GROUNDS AND BUILDINGS

The University campus contains sixty-eight acres of land, affording ample grounds for building and for all sorts of athletic sports. The University owns, contiguous to the campus, five hundred acres of forest lands, which are partly laid off in walks and drives. The University has forty-two buildings.

The Old East Building (1793) contains thirty-nine living rooms.

Person Hall (1795) contains the offices, lecture rooms, and laboratories of the School of Pharmacy.

The South Building (1798) contains thirty-one living rooms.

Gerrard Hall (1822) is used for lectures and student assemblies.

The Old West Building (1822) contains thirty-nine living rooms.

Smith Hall (1849) contains the theatre and workshop of the Carolina Playmakers.

The New East Building (1857) contains the Philanthropic Literary Society's Hall, the Geological Laboratories and Museum, and four lecture rooms.

The New West Building (1857) contains the Dialectic Literary Society's Hall, and three lecture rooms.

Memorial Hall (1883) commemorates the illustrious dead of the University. It is used for chapel exercises, for Commencement, and for other public exercises.

Alumni Hall (1898) contains the offices of administration, the offices of the Extension Division, and one lecture room.

The Carr Dormitory (1899) contains thirty-two living rooms.

The Smith Dormitory (1901) contains forty living rooms.

The William Preston Bynum, Jr., Gymnasium (1904) is furnished with modern apparatus, swimming pool, baths, and running track; and contains a trophy room and the office of the Director.

The Young Men's Christian Association Building (1904) is a valuable adjunct to the work of the Association.

The Chemistry Building (1905) contains the laboratories, lecture rooms, library, and offices of the Department of Chemistry.

The Library (1907) contains the offices, stack rooms, and reading rooms of the main library.

The Infirmary (1907) is completely equipped for service to the students of the University.

Davie Hall (1908) contains the laboratories, lecture rooms, library, and offices of the departments of Botany and Zoology.

Caldwell Hall (1911) contains the laboratories, lecture rooms, library, and offices of the School of Medicine.

The Peabody Building (1912) contains the lecture rooms, libraries, laboratories, and offices of the School of Education and the Department of Psychology.

The Battle-Vance-Pettigrew Dormitories (1912) contain twenty-four living rooms each.

Swain Hall (1913) contains a dining hall with a seating capacity of six hundred, kitchens, bakery, and a cold-storage plant.

Phillips Hall (1918) contains the laboratories, lecture rooms, library, and offices of the School of Engineering and the Departments of Mathematics and Physics.

The Steele Dormitory (1920) contains thirty-six living rooms.

The Mangum Dormitory (1921) contains sixty living rooms.

The Grimes Dormitory (1921) contains sixty living rooms.

The Manly Dormitory (1921) contains sixty living rooms.

The Ruffin Dormitory (1921) contains sixty living rooms.

Saunders Hall (1922) contains the laboratories, lecture rooms, and offices of the School of Commerce, the Department of History and Government, the School of Public Welfare, and the Department of Rural Social Economics.

Murphey Hall (1922) contains the lecture rooms, seminar rooms, and offices of the Departments of English, German, Greek, Latin, and Romance Languages.

Manning Hall (1923) contains the lecture rooms, library, reading rooms, and offices of the School of Law.

The F Dormitory (1924) contains sixty living rooms.

The G Dormitory (1924) contains sixty living rooms.

The J Dormitory (1924) contains sixty living rooms.

Besides the buildings named above the University owns a number of service and residence buildings.

LABORATORIES AND MUSEUMS

The Geological Laboratories and Museum

The Geological Laborary occupies the first floor of the New East Building. In addition to a lecture room with a seating capacity of about fifty, there is on this floor a laboratory supplied with working collections of minerals, rocks, and fossils, and with photographs, maps, and models illustrating geological structure. The petrography laboratory, on the fourth floor, is furnished with three petrographical microscopes, with four microscopes for soil study, and with apparatus for the slicing and polishing of rocks. Microscopic slides have been made of most of the specimens from North Carolina; the department

has, also, sections of the typical European rocks. Sections of the rocks around Chapel Hill, and the igneous rocks of the Boston Basin, made by the late Hunter Lee Harris, of the class of 1889, were given to the geological department. There is a room for photographic work.

The University possesses a collection of more than two thousand specimens of building stones, coal, and various products illustrating the economic geology of the State. These are arranged in an exhibition room of six hundred and fifty square feet of floor space. Here also are kept the sections taken with a diamond drill in the coal regions of Pennsylvania, in the region around King's Mountain, where the Summer School of Geology held its sessions, in the Dan River coal fields, and in the Triassic Rocks at Durham, N. C. A complete set of the ores of the precious metals found along the line of the Atchison, Topeka and Santa Fe Railroad is included in the collection. Valuable additions have been made to the collection of fossils also, affording increased opportunity for laboratory work in historical geology and paleontology. The collection illustrating economic geology has been largely increased by the addition of many specimens from the mining regions of Northern Ontario. In 1921 a complete set of the soils of Japan arranged with relation to geological horizons was added to the collections as well as many photographs and specimens collected in Asia and in tropical South America during Professor Cobb's absence on leave, 1920-'21. Stereographs and lantern slides illustrating geological phenomena in all parts of the world and lantern slides showing mining methods in all the great mining regions are in constant use, and important additions to this collection have been made during the year.

The Department Library, which occupies a room on the second floor, is supplied with State and United States Reports, the papers of working geologists, the best works upon Geology, and scientific periodicals.

The Chemical Laboratories

Chemistry Hall is located east of Alumni Hall. The main floor contains a large lecture hall, a small lecture room, the laboratory for Organic Chemistry, two laboratories for Quantitative Analysis, several private laboratories and offices for the instructors. On the second floor are two large laboratories for Elementary Chemistry, a large laboratory for Qualitative and Quantitative Analysis, several research laboratories and the Library of the Department. The basement contains the storerooms, fireproof room, constant temperature room, assay room, laboratories for Physical Chemistry, Electrochemistry, Industrial Chemistry and a small lecture room.

The laboratories are well equipped with apparatus for the regular courses and for research work of students or instructors, and the library contains a most excellent collection of books and journals which are of the utmost value in research work.

By the fall of 1925 Venable Hall, named in honor of Dr. Francis Preston Venable of this department, will have been completed. Beginning in September, 1925, all the work of the Department will be done in the new building.

The Biological Laboratories

The Biological Building, Davie Hall, is occupied by the Departments of Zoology and Botany. The building is a rectangular structure of pepper-and-salt brick and is divided into a main body and two wings. The total length is 125 feet, the depth of the main body 44 feet, that of the wings 38 feet. A basement underlies the whole, above which are two floors. The main body has an additional third floor. The building faces south, lies to the east of the New East, and adjoins the Arboretum.

The entrance hall, on the first floor, lighted with large windows on either side of the main doorway, serves for the exhibition of museum specimens of a more popular character. Back of the entrance hall are an herbarium, a room for charts and other lecture apparatus, and a room for the storage of zoological specimens. The west wing of this floor is occupied by a lecture room with a seating capacity of one hundred and twenty, the east wing by a laboratory for the elementary classes in zoology and botany. The latter laboratory is arranged for twenty-four wall tables with a window in front of each table.

On the second floor the east wing is occupied by a single large laboratory for advanced work in zoology and the west wing by a similar laboratory for advanced work in botany. Each of these rooms accommodates twenty workers, and is lighted on three sides with twenty windows. The main building on this floor includes private workrooms for the professors of zoology and botany; two storerooms, and a library. On the third floor of the main body is a professor's workroom and a photographic studio with windows on the northside extending to the floor and skylights. In the basement are a fireproof incubator room, a room for micro-photography with adjoining dark room, janitor's shop, and rooms for the storage of heavy supplies. The wings in the basement are designed for the keeping of live animals and plants for experimental work in zoology and botany.

The Medical Laboratories

The medical building, Caldwell Hall, was built with funds appropriated by the State. It was completed and opened for service in 1912. It is located on the south side of Cameron Avenue opposite Davie Hall.

The main building is 117 x 64 feet and adjoining it on the south side is a wing 63 x36 feet, each including a basement and two stories. The first floor of the main building is bisected by a hall fourteen feet wide from north to south and a corridor 8 feet wide from east to west.

The floor space is therefore subdivided into four equal parts. Each part is subdivided into one large laboratory 34 x 27 feet and two smaller laboratories, 12 x 14 feet. The second floor is practically a duplicate of the first floor. Each of the large laboratories is equipped for forty students and those on the north side are used for all microscopic work and those on the south side for experimental physiology, experimental pharmacology, and physiological chemistry. The smaller laboratories are used as private laboratories for the instructors.

On the first floor of the wing are the lecture room which has a seating capacity of about seventy-five, and the departmental library; on the second floor are the dissecting hall and private rooms of the instructors in anatomy.

In the basement provision is made for the care of animals and the storage of supplies. The rooms are well lighted, heated, and ventilated and provided with conveniences for proper sanitation. The laboratories are unusually well lighted and equipped with the essentials for efficient work by students and instructors.

The departmental library contains approximately 1200 bound volumes of the best journals covering the subjects of the first two years of the medical course, most of them in complete sets, and a large number of books on clinical subjects presented by friends of the school, among them the private libraries of some of the most eminent physicians in the State, Dr. W. J. Wood, of Wilmington; Dr. P. E. Hines, of Raleigh; Dr. H. S. Bahnson, of Winston-Salem; Dr. J. E. Ray, of Raleigh.

The Pharmaceutical Laboratories

Person Hall is occupied by the School of Pharmacy. It contains ten rooms, each equipped with water, gas, and electricity. It is well supplied with light and ventilation.

The front part of the building contains a lecture room, a library, and a research laboratory. The lecture room has a seating capacity of seventy-five students. In this room are exhibited many rare and expensive chemicals, antitoxins and serums, standardized galenicals, and preparations made by various students. These exhibits serve to illustrate lectures. The library was inaugurated by the Class of 1897. In it are filed a large number of medical and pharmaceutical journals, and it contains a well-selected group of text, historical, and reference books.

The body of the building is made up of three laboratories. These laboratories are for the first, second, and third year pharmacy students. Each student is supplied with an individual desk with lock, in which are stored all the equipment and apparatus necessary for the work. These desks are supplied with both water and gas. Suitable balances are distributed at convenient points throughout the laboratories.

The back wing of the building contains a prescription and gas room, an office, and a large lecture room for the courses in materia medica.

In this wing is also the Museum of Industrial Arts. A large collection of industrial products is exhibited for special study and serves to illustrate lectures. The various exhibits are arranged in such a way as to show successively the raw materials, goods in process of manufacture, and the finished products ready for market. Among the classes of products displayed are pharmaceuticals, biologicals, inorganic and organic chemicals, crude drugs, volatile oils, vegetable oils, fats, and waxes. There are also exhibited the raw materials and their products of manufacture from glass, tin, nickel, steel, brass, asbestos, carborundum, coal, petroleum, wood, cotton, corn, rubber, etc. A very complete collection of the valuable flower oils and aromatic chemicals used in the art of perfuming and the manufacture of cosmetic and toilet requisites is also shown.

In September, 1925, the School will take over the building occupied at present by the Department of Chemistry, this Department moving into the commodious new building now in process of construction to be known as Venable Hall.

The Physical Laboratories

The Physical Laboratories occupy the west end of the main floor of Phillips Hall. There is a large laboratory for general physics, a laboratory for advanced work, several research laboratories, a photographic dark room, and two large apparatus rooms. One of these adjoins the lecture room, which has a seating capacity of three hundred. The general laboratory is large enough to accommodate more than forty students at one time and is equipped with a view of accomplishing the maximum amount of laboratory work in the minimum time. All laboratories and lecture rooms are supplied with gas, running water, and electric power. Compressed air can be obtained by means of a portable compression and vacuum pump.

The following electrical power resources are available: 3-phase alternating current at 110 volts, or 220 volts; a 12 volt set with capacity of 500 amperes; a 12 volt set with capacity of 14 amperes, and a 110 volt circuit.

A three-panel slate switchboard distributes direct and alternating current power by means of a plug and socket system to sub-panels located in all lecture rooms and laboratories. Seven wires run from the switchboard to each of the sub-panels, giving a very flexible system of power distribution.

The advanced laboratories are equipped with special apparatus making it possible to pursue advanced work in physics especially along the line of optics, conduction of electricity through gases, and the electron theory. The recent addition of a Langmuir Vacuum Pump makes possible investigations in the highest attainable vacuum.

The departmental library located on the third floor of Phillips Hall has on file the current numbers of all of the standard American, English, French, and German journals of physics.

The Psychological Laboratories

The Department of Psychology is using temporarily rooms at the west end of Peabody Building. They include a medium sized lecture room, two laboratory rooms, two small laboratory rooms, a dark room, three offices, all on the second floor; and an animal laboratory room in the basement.

The equipment includes: sufficient duplication of apparatus for the experimental work in the various undergraduate courses; a fairly complete stock of standard apparatus for training in experimental methods; and sufficient apparatus and funds for the prosecution of research along most of the recognized psychological lines.

The departmental library includes all the technical journals published in English and a few in other languages. The supply of books is fairly complete.

In September, 1925, the Department of Psychology will occupy Person Hall in which at present the School of Pharmacy is quartered.

The Civil Engineering Laboratories

The Civil Engineering Laboratories occupy the east end of the ground floor of Phillips Hall. The materials testing laboratory contains a two-hundred thousand pound Olsen and a one-hundred thousand pound Universal testing machine upon which the usual tests of various materials of construction can be performed. This laboratory is also equipped with a Standard tensile testing machine for testing cement briquettes together with such accessory apparatus as is necessary for the standard tests of cement and sand.

The highway engineering laboratory is equipped with apparatus for the standard tests of bituminous and non-bituminous road surfacing materials, consisting in part as follows: Engler viscosimeter, penetrometer, ring and ball melting point apparatus, open cup oil tester, New York Board of Health oil tester, Hubbard-Carmick specific gravity flasks, hydrometers, float testing apparatus, constant temperature and drying oven, ductility machine, Dulin rotarex, Deval 4-cylinder abrasion machine, diamond core drill, diamond saw, grinding lap, Page impact, ball mill, briquette former, cementation impact machine, et cetera.

The hydraulic laboratory is equipped with apparatus for conducting experiments upon the flow of water in pipes, weirs, and orifices; determination of friction loss and hydraulic gradient.

The laboratory of sanitary engineering is fully equipped to make complete chemical and bacteriological examinations of water, sewage,

and milk. Students are required to perform regularly, for a short period, the routine tests conducted in connection with the operation of the Chapel Hill water purification plant, the sewage treatment plant, and the control of the milk supply.

The surveying laboratory consists of ample equipment, such as transits, levels, chains, etc., for conducting practical problems in field work.

The Electrical Engineering Laboratories

The Electrical Engineering Laboratories, located in the west end of the ground floor of Phillips Hall, consist of a large dynamo laboratory, having nearly three thousand square feet of floor space, and seven smaller laboratories. They are all supplied with power through a large seven-panel slate switchboard controlling a 25-k.w., 125-volt, direct current motor-generator set, a 5-k.w, 180-volt, Westinghouse booster set, and a 5-k.w., 6 or 12-volt, General Electric electrolytic type motor-generator set. Sub-panels in all the laboratories are connected with this switchboard by means of eight wires, and a plug and socket system of distribution makes it possible to supply any of the laboratories with several kinds of power at the same time.

DYNAMO LABORATORY. The dynamo laboratory is well supplied with direct and alternating current machines of modern design for testing purposes, including a 15-kv.a. General Electric motor-generator set with revolving field alternator, wound for single, two, three or six-phase, two 5-kv.a., 3-phase, Westinghouse motor-generator sets, two synchronous converters of 10-k.w. and 3-k.w. capacity, two 3-k.w. Westinghouse D. C. motor-generator sets, one 3-h.p. General Electric Type RF variable speed motor with compensating winding in the pole faces, a 5-h.p. General Electric 3-phase induction motor with wound rotor and drum type controller, a 3-h.p. Westinghouse and a 2-h.p. General Electric squirrel-cage induction motor, a 3-h.p. General Electric Type RI repulsion motor, and fifteen other D. C. and A. C. machines ranging from two to ten horsepower.

There is also a 50-ampere, 125-volt, General Electric mercury-arc rectifier set, a 10,000-volt testing transformer, and a number of 2300-volt transformers. The laboratory has an unusually complete equipment of control rheostats, lamp banks, and inductance coils, two 100-microfarad condensers, and over one hundred portable ammeters, voltmeters, and wattmeters.

STANDARDIZATION LABORATORY. The standardization laboratory for electric and magnetic measurements is equipped with the following precision laboratory standards: one 150-volt Weston D. C. voltmeter, one 150-volt Weston A. C. voltmeter, one 100-millivolt Westinghouse D. C. millivoltmeter with a complete set of shunts, one 5-10-ampere Westinghouse Kelvin-balance type ammeter, one 200-ampere, 300-volt Westinghouse Kelvin-balance type wattmeter, a number of General Electric and Westinghouse potential and current transformers, a 150-

ampere, 440-volt States 3-phase test table, General Electric and Westinghouse rotating-standard watthour meters, a Queen-Gray potentiometer, several bridge testing sets, a Kelvin double bridge, a capacity bridge, D'Arsonval and ballistic galvanometers and the usual equipment of standards of resistance, inductance, and capacity.

Photometric Laboratory. The photometric laboratory is equipped with a standard Reichsanstalt photometer bench with three-meter track, equipped with standard track screens for daylight work, Bunsen screen, Lummer-Brodhun disappearance and contrast screens, standard Hefner lamp, a number of certified carbon and tungsten incandescent standards, a compound rotator, a luxometer and a G. E. Foot-Candle meter for illumination surveys and a number of shades and reflectors of various types. The laboratory is also supplied with constant potential and constant current arc lamps, direct and alternating current types, a 4-ampere magnetite arc, 12-ampere flaming-arc, and a 3.5 ampere mercury-arc.

Radio Laboratory. The radio laboratory is equipped with a 100-watt radio-phone and c. w. telegraph transmitter and a 50-watt c. w. short wave set, as well as a number of small oscillators for testing purposes. The receiving equipment comprises a 6-tube superheterodyne, an 8-tube ultradyne, 5-tube neutrodyne, 5-tube Erla Reflex set, 5-tube Cockaday, 4-tube Roberts, a honey-comb coil set with a wave length range from 100 to 20,000 meters, and a number of simple regenerative sets.

The facilities for radio measurements include General Radio decade and capacity bridges, General Radio precision wave-meter and precision condenser, and the usual complement of coils, condensers variometers, hot-wire, and thermocouple ammeters.

Other Laboratories. In addition to the above there are a research laboratory with General Electric Oscillograph and dark-room, a storage battery laboratory, containing two 120-volt batteries as well as a number of portable cells, and a special laboratory for Freshman instruction containing a large amount of standard equipment illustrating the applications of electricity and a number of special devices, designed and built in the department shop, for teaching the fundamentals of electrical engineering.

The Power Plant and Mechanical Engineering Laboratory

The University Power Plant is located in the rear of Phillips Hall, in which are the Civil and Electrical Engineering laboratories This plant furnishes electric lights, power, and water for the town of Chapel Hill and electric lights and power, water, and heat for the University buildings.

The plant was built in 1916, and was designed with a view to its use as a Mechanical Engineering Laboratory. It has an ultimate capacity of 1000 horsepower. At present the boiler room contains two

168-horsepower and one 350-horsepower Babcock and Wilcox boilers and one 350-horsepower Union Iron Works boiler, supplying steam at 200 pounds pressure, a 500-horsepower Cochrane feed water heater and a full equipment of boiler room auxiliaries. It also contains two large exhaust steam heaters and a live steam heater for the hot water heating system which supplies all University buildings. All of the apparatus is supplied with a full complement of flow meters, gages, thermometers, etc., so that a complete test may be run on this part of the plant.

Adjoining the boiler room is the pump room, which contains a 4-in. two stage centrifugal service pump driven by a 20-horsepower Crocker-Wheeler motor, a 50-horsepower DeLaval turbine driven centrifugal pump, a 150-horsepower General Electric-Dayton-Dowd centrifugal pump, for circulating the water in the heating system and a 1000-gallon per minute fire pump driven by a 100-horsepower Westinghouse motor.

The engine room, located over the pump room, contains a 200-kilowatt three phase, 2300-volt General Electric turbo generator, and a 25-horsepower Chandler and Taylor slide valve engine especially equipped with indicator reducing motion, surface condenser, prony brake, special governor, and indicator piping for experimental work. The turbo alternator has a direct connected exciter and there is also a 10-kilowatt motor generator exciter set. The electrical equipment is controlled by a five-panel remote-control switchboard made by the General Electric Company. All of the high tension switches are located in an enclosure in the pump room below. The enclosure also contains an 8-kilowatt constant current transformer for the campus lighting and street lighting of Chapel Hill and a 2300-volt starting compensator controlling the centrifugal pump which pumps the water supply from a small creek a mile north of the town. The laboratory is equipped with throttling and separating calorimeters, flow meters, thermometers, Orsat apparatus for flue gas analysis, pressure and vacuum gauge testing apparatus, indicators, and other accessory apparatus necessary for making complete tests on power plants.

THE UNIVERSITY LIBRARY

Louis Round Wilson, Ph.D., *Librarian.*
Charles Melville Baker, A.M., B.L.S., *Assistant Librarian.*
Cornelia Spencer Love, A.B., B.L.S., *Order Librarian.*
George Bryan Logan, Jr., A.B., *Reference Librarian.*
Elizabeth Hardy Thompson, A.B., B.L.S., *Head Cataloger.*
Mary Lindsay Thornton, *In charge of the North Carolina Collection.*
Alma Irene Stone, A.B., *In charge of Periodicals and Bindings.*
George Hicks Faison, A.B., B.L.S., *In charge of Circulation.*
Clara Boynton Cole, A.B., *In charge of Library Extension Service.*

Alma Hill Jamieson, *Librarian of the Education Library.*
Henrietta Rhea Smedes, *Custodian of the Rural Economics Library.*
Ernestine Kennette, A.B., *Custodian of the Engineering Library.*
Guelda Hillyard Elliott, *Custodian of the Commerce Library.*
Lucile Marshall Elliott, A.B., *Custodian of the Law Library.*

The University Library contained at the end of the academic year one hundred and thirty-nine thousand, eight hundred volumes and several thousand pamphlets. This collection has been classified and catalogued according to the Dewey decimal system, and rendered accessible by means of a dictionary author, title, and subject card catalogue.

The Library funds are expended under the direction of the Librarian, the Library Budget Committee, the Library Committee, and Professors in charge of Departments, with special reference to the instruction given in the University. The annual addition of books from purchase, donations, and exchanges is over fifteen thousand volumes, all of which are carefully classified and catalogued as they are received.

The main Library is housed in a library building erected in 1907, and represents an expenditure for construction and equipment of $81,000. The reference, current periodical, and seminar rooms in the main Library have table and seating capacity for two hundred students at one time.

The stack room has a capacity for one hundred and twenty thousand volumes.

A special collection of dictionaries, encyclopedias, almanacs, handbooks, atlases, concordances, and other reference books is provided for general use in the reference room.

In addition to the resources of the general reference room, the Library has a collection of ten thousand bound periodicals covering all fields of general, technical, and professional information.

One thousand one hundred and eighty-one current periodicals, transactions of literary, scientific, historical, and other societies, continuing and supplementing the bound sets, are subscribed for or secured through exchange annually.

As the Library is a depository for the publications of the United States Government, it contains material especially valuable for reference in debate, and in the study of social and political sciences, useful arts, and the natural sciences.

Four special seminar rooms have been equipped in the general Library to facilitate advanced work in English and German Literatures and Languages, Greek and Latin Literatures and Languages, the Romance Literatures and Languages, and North Carolina History.

The North Carolina room contains all the books in the Library which relate to North Carolina, including the Weeks collection of Caroliniana. The whole makes one of the finest collections on the history of this State in the country, and with its special librarian, offers rare advantages to the research student.

Brief instruction in the use of the card catalogue, the periodical indexes, and the reference books generally, is given new students at the beginning of each quarter. Instruction in a regular University class is also given to students who are preparing for positions in school and public libraries, with a view to making them more efficient in the discharge of their special duties.

DEPARTMENTAL LIBRARIES

Five departmental libraries are in charge of regular attendants: Commerce, Education, Engineering, Law, and Rural Economics. Six libraries Botany, Chemistry, Geology, Medicine, Pharmacy, and Zoology are under the supervision of the instructors in those departments and the Librarian.

RULES

Subscribers to the Library are the students and members of the faculty.

Faculty members are not restricted as to the number of books borrowed or the time they may be retained except in the case of Fiction or books needed for Reserve, and all books charged to Faculty members must be returned or renewed each June.

The term Faculty applies to men of or above the rank of Instructor.

Other persons who desire to use the Library may become subscribers on payment of a regular library fee of $4 a year, $1 for three months, or 50 cents a month.

Persons who are not subscribers may not borrow books on a subscriber's name.

Books bought for a Department do not consequently become the exclusive property of that Department. They are the property of the University, acquired through the Library, and are to be so placed as to insure their greatest use to the greatest number of students and faculty members.

Postal card notices are sent to borrowers as reminders of books overdue, but failure to receive the notice is not considered a valid excuse for not paying the fine.

Students are expected to respond promptly to all Library notices, whether personal or general. Failure to do so constitutes a serious offense against the University.

A student who owes the Library for fines or lost books will not receive academic credit for his courses at the end of a quarter.

For detailed rules see Library Handbook.

THE UNIVERSITY OF NORTH CAROLINA PRESS

Louis Round Wilson, Ph.D., *Director*
Gerald White Johnson, A.B., *Secretary*

BOARD OF GOVERNORS

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The University of North Carolina Press was incorporated on June 12, 1922. The objects for which it was established are: (1) To publish periodicals devoted to the advancement of learning and produced at the University by or under the direction of the Faculty; (2) To publish catalogues, bulletins, and other documents pertaining to the University and its various schools and departments; and (3) To promote generally, by publishing deserving works, the advancement of arts and sciences and the development of literature.

The Press was established upon the authority of the Board of Trustees of the University, is a non-stock corporation, is financed in part by the University, and is managed by a Board of Governors drawn from the Faculty and Board of Trustees.

In addition to the publication of books, the Press has established three series of studies under the title: The University of North Carolina (1) "Studies in Language and Literature," (2) "Studies in Social Science and History," and (3) "Studies in Science." The Press also publishes the following periodicals: *The Journal of the Elisha Mitchell Scientific Society; Studies in Philology; The James Sprunt Historical Publications; The High School Journal; The Journal of Social Forces;*

The North Carolina Law Review; The University of North Carolina Extension Bulletin; The University News Letter; The University of North Carolina Record; North Carolina Commerce and Industry.

The Press office is located on the seond floor of the Library. The agents of the Press for Great Britain and the British Dominions are respectively: *The Oxford University Press,* London, for books and studies; *The Cambridge University Press,* London, for periodicals. A complete list of publications issued by the Press will be supplied to any address on request.

ADMISSION

ADMISSION TO THE UNIVERSITY

Evidence of successful vaccination against small-pox is a prerequisite for the admission of students to this institution. Applicants for admission to any school are hereby informed that a certificate as to successful vaccination must be sent to the Registrar before they can be admitted.

Candidates for admission to the University are received by certificate from accepted schools or by examination.

Entrance By Certificate. Students who present certificates of work accomplished at preparatory schools and colleges may be admitted without examination, provided the certificates are approved. The right to examine, however, is reserved, when such a course is deemed necessary. Certificates must be made out on the printed forms furnished on application to the Registrar, and should be sent in as early as possible in the summer vacation; the uniform entrance certificates of the Association of Colleges and Secondary Schools of the Southern States will also be accepted. Candidates must present themselves in person before the Committee on the Registration of Freshmen during the period of registration.

Entrance By Examination. Entrance examinations are held in September. The University will accept the uniform entrance examination papers of the Association of Colleges and Secondary Schools of the Southern States, provided such papers are properly vouched for and sent sealed to the University for grading. The University will accept also the certificates of the College Entrance Examination Board. Candidates for admission by examination must make application to the Registrar in writing two weeks before the date for registration. Time and place for examinations will be arranged by the Registrar.

Admission to Advanced Standing

A candidate for advanced standing may be admitted to the Sophomore, Junior, or Senior Class, in accordance with the amount and character of his previous training. The examining committee will accept, with proper restrictions, the official report of work satisfactorily completed at a college or university of good standing. All credits allowed by this committee stand in suspense until the candidate shall have spent one quarter in residence. If his work during this quarter is unsatisfactory, the credits may be canceled.

A candidate for advanced standing must send to the Registrar his application accompanied by an official transcript of his previous record at least two weeks before the date for registration. Blank forms may be secured by writing the Registrar. Notice is hereby given that ap-

plicants whose records at other institutions do not reach the standard required for the readmission of students at this institution will not be admitted.

Admission of Women

By action of the Trustees in February, 1897, women were made eligible for admission to the Graduate School of this institution. Almost immediately this action was extended so that women were eligible for admission to the two upper classes of the college. Some years later women whose training was found to be sufficient were admitted to the Professional Schools of Law, Medicine, and Pharmacy. By an extension of this action women were admitted to special courses in work that is not to be obtained in a college for women.

Entrance Requirements

For admission to the University of North Carolina fifteen units secured by the completion of a four years' high school course are required. The applicant must either present an official certificate showing his preparatory work and the recommendation of his school, which must be on the list of accepted schools, or stand entrance examinations on an equivalent amount of preparatory work.

It must be clearly understood that admission to the University does not, necessarily, mean admission to candidacy for a degree.

In order for a student to be admitted as a candidate for a degree, he must meet the specific requirements laid down by the school or college in which that degree is conferred. In some cases this will make it necessary for the candidate to carry certain courses as prerequisites over and above the courses prescribed for the degree, or to make up certain deficiencies. These deficiencies must be made good before the student may register for his sophomore year.

The preparatory student should decide, therefore, as early as possible, for which degree he wishes to become a candidate and carry such courses in his preparatory school as will admit him to candidacy for that degree.

Subjects for Entrance

The complete list of subjects accepted for entrance with the maximum credit that may be secured in each subject is as follows:

English	3 or 4 units
History	4 units
Mathematics	4 units
Greek	3 units
Latin	4.7 units
French	3 units
German	3 units
Spanish	3 units
Botany	1 or 0.5 unit
Chemistry	1 or 0.5 unit
Physics	1 or 0.5 unit
Physiology	0.5 unit

Zoology	1 or 0.5 unit
General Science	1 or 0.5 unit
Physiography	1 or 0.5 unit
Drawing	1 unit
Civics	0.5 unit
Economics	0.5 unit
Vocational subjects	
Commercial Geography	0.5 unit
General Agriculture	2 units
Bookkeeping	1 unit
Commercial Arithmetic	1 unit
Stenography and Typewriting	1 unit
Manual Training	2 units

NOTE, that as many as four (4) units in English, four (4) units in history, and two (2) units in agriculture may be accepted. This amount of credit will be allowed only when the Registrar is satisfied that the work done in these subjects at any given school is of a superior order.

NOTE FURTHER: One (1) full unit in any of the sciences will be allowed only when satisfactory work is done in the laboratory as evidenced by the notebook; otherwise only one half (.5) unit will be allowed. In vocational subjects not more than a total of three (3) units will be credited.

PRESCRIBED REQUIREMENTS

For full statements covering the subjects accepted for entrance see Detailed Requirements, page 50.

The requirements for admission to candidacy for the different degrees in the College and the several Schools within the University are as follows:

THE COLLEGE OF LIBERAL ARTS
(The Degree A.B.)

English *a, b, c*		3 or 4 units	
History *a*		1 unit	
Mathematics *a, b, c*		2.5 or 3 units	
Select Two	Greek *a, b*	2 units	4 or 5.7 units
	Latin *a, b, c, d*	3.7 units	
	German *a*	2 units	
	French *a*	2 units	
	Spanish *a*	2 units	
Electives			
Total		15 units	

NOTE, that two foreign languages to the amount of not fewer than four (4) units, or 5.7 if Latin is chosen as one, are required for admission to candidacy for the degree A.B. The languages so presented must be continued as the required foreign languages, or the elementary courses (1 and 2) of a substituted language must be taken without credit towards the degree. Elementary Greek (1-2) and Elementary German (1-2), however, when completed satisfactorily in this institution, will be counted also as electives for degree credit.

THE SCHOOL OF APPLIED SCIENCE
(The Degree S.B.)
Bachelor of Science in Chemistry

English *a, b, c*	3 or 4 units
History *a*	1 unit
Mathematics *a, b, c, d*	3 or 3.5 units
French *a*	2 units
German *a*	2 units
Science	1 unit
Electives	
Total	15 units

NOTE, that the requirements for admission to candidacy for the degree S.B. in Chemistry call for:

French *and* German
Solid Geometry

Bachelor of Science in Geology

English *a, b, c*	3	or 4	units
History *a*		1	unit
Mathematics *a, b, c*	2.5	or 3	units
French *a*, or German *a*, or Spanish *a*		2	units
Science		1	unit
Electives			
Total		15	units

NOTE, that the requirements for admission to candidacy for the degree S.B. in Geology call for:
One modern foreign language

For admission to candidacy for the degree S.B. in Medicine see The School of Medicine, page 49, and for the degree S.B. in Pharmacy see The School of Pharmacy, page 50.

THE SCHOOL OF ENGINEERING

(The Degree S.B.)

Bachelor of Science in Electrical, Civil, or Mechanical Engineering

English *a, b, c*	3	or 4	units
History *a*		1	unit
Mathematics *a, b, c, d*	3	or 3.5	units
French *a*, or German *a*, or Spanish *a*, or Greek *a, b*, or Latin *a, b*		2	units
Science		1	unit
Electives			
Total		15	units

NOTE, that the requirements for admission to candidacy for the degree S.B. in Electrical or Civil, or Mechanical Engineering call for:
One foreign language
Solid Geometry

THE SCHOOL OF EDUCATION

(The Degree A.B. in Education)

The requirements for admission to candidacy for the degree A.B. in Education are the same as for admission to candidacy for the A.B. in the College of Liberal Arts.

THE SCHOOL OF COMMERCE AND FINANCE

(The Degree S.B. in Commerce)

English *a, b, c*	3	or 4	units
History *a*		1	unit
Mathematics *a, b, c*	2.5	or 3	units
Select Two: Latin *a, b*; German *a*; French *a*; Spanish *a*; Greek *a, b*		4	units
Electives			
Total		15	units

NOTE, that the requirements for admission to candidacy for the degree S.B. in Commerce call for:
Two foreign languages to the extent of four (4) units

THE SCHOOL OF PUBLIC WELFARE

The one year and two year courses of professional training are open to graduates of colleges of good standing.

Students not eligible to the regular courses by reason of not holding a degree may be admitted to special courses of one quarter or more provided they have had sufficient general education and practical experience to insure satisfactory work and conform to University requirements.

THE GRADUATE SCHOOL

Holders of, Bachelor's or Master's degrees from standard colleges are admitted to the Graduate School upon presentation of their credentials and without examination. Upon the vote of the Administrative Board other mature persons may be admitted as special students in courses for which they are qualified. Every student must bring to the office of the Graduate School, at the time of registration, a program of studies approved by the Department in which he proposes to specialize, or, in case of special students, the permission of the Department to register for certain specified courses.

THE SCHOOL OF LAW

Candidates for the Degree J.D.

Students who are candidates for the degree J.D. must have completed the work for an A.B. degree or its equivalent in this or some other institution of recognized standing.

Candidates for the Combined Degree A.B.-LL.B.

Students who are candidates for the combined degree of A.B.-LL.B. must have completed in the College of Liberal Arts the course prescribed. This consists of twenty-seven courses carefully selected with a view to providing the student who wishes to shorten his period of residence the best preparation for the legal profession possible under the circumstances. This course enables a student to secure in six years the combined A.B. and LL.B. degrees.

Candidates for the Degree LL.B.

Students who are candidates for the degree of LL.B. must have completed eighteen courses, or their equivalent, of college work in subjects approved by the Law Faculty of the University. Students may not enter at the opening of the second term as applicants for the degree nor, except by special permission of the Dean, in preparation for the examination for license.

Admission to Advanced Standing

A student from another School of Law in which the requirements for admission are at least as high as in this school, may be admitted to advanced standing for the degree of LL.B. As a rule no more than one year's work will be so credited without residence, but with the consent of the Law Faculty, two years' work may be credited in exceptional cases. A student seeking admission to advanced standing must present satisfactory evidence that the work taken in another school is substantially equivalent to that given in the corresponding year here, both in the character of the work covered and in the amount of time devoted to each subject.

Students Not Candidates for the Degree

Students taking regular work in the school, but not candidates for the degree, must, unless they are "special students," present 15 units for entrance credits in the Freshman class of the University and at least two full years (eighteen courses or the equivalent) of college grade work.

Special Students

Mature persons twenty-one years of age or over may for the present be admitted as special students upon satisfying the Law Faculty that they have such training as will enable them to profit by the instruction given in the School. The number of special mature students is strictly limited. A personal interview with the Dean of the School of Law may be required before final decision is given in any case.

THE SCHOOL OF MEDICINE

I. Requirements for Admission to the course leading to the degree of S.B. in Medicine:

English *a, b, c*	3 or	4	units
History *a*		1	unit
Mathematics *a, b, c*	2.5 or	3	units
*German *a*		2	units
French *a*		2	units
Electives			
Total		15	units

NOTE, that the requirements for admission to candidacy for the degree S.B. in Medicine call for:
* French *and* German

II. Requirements for Admission to the Pre-medical or Pre-dental Course:

English *a, b, c*	3 or	4	units
History *a*		1	unit
Mathematics *a, b, c*	2.5 or	3	units
Select One { German *a* / French *a* }		2	units
Electives			
Total		15	units

NOTE, that the requirements for admission to the Pre-medical or Pre-dental Course call for:
Either French or German

III. Requirements for Admission to the Medical Course. The minimum requirements for admission to the medical course are 2 years (60 semester hours) of college work, which must include a minimum of twelve semester hours in Chemistry (including 4 semester hours of Organic Chemistry), eight semester hours in Biology, eight semester hours in Physics, six semester hours in English, and six semester hours in a modern language (French or German) beyond the amount required in the language chosen for admission to the University. *Students will not be admitted with less than the equivalent of sixty semester hours, nor with less than the required number of hours in Science and Language subjects.*

IV. Admission to Advanced Standing. Candidates for admission to the second year of the medical course must present certificates from an accredited medical school stating that they have had the required fifteen units, the two years of college work as indicated in Section III, and have completed the subjects of the first year of the medical course as outlined.

*The curriculum for this degree requires four courses of college grade work in French or German above the elementary courses 1 and 2 or two such courses in French *and* two such courses in German. If one language is taken, that language must be continued through French 6 or German 22; if both languages are taken, the requirements are French through course 4 and German through course 4. Hence the entrance requirement is either French or German (if one language is to be taken), or both French and German (if both languages are to be taken).

THE SCHOOL OF PHARMACY

Candidates for the degree of S.B. in Pharmacy must present for entrance the same subjects as are prescribed above for admission to the Pre-medical course on page 49. For the curriculum leading to this degree see under the School of Applied Science.

Candidates for the degree for Ph.G. must be on entering at least seventeen years old, and must have completed a high school course of study or must present evidence of 15 units. They may, however, enter a one-year special course without this prerequisite.

DETAILED REQUIREMENTS

The requirements in each of the subjects accepted for entrance are as follows:

ENGLISH: (1923-1925) (*a*) Grammar and Rhetoric ..... 1 unit

Attention is directed to the list of minima essentials in composition as printed by the North Carolina Department of Public Instruction in its model course for the public schools.

(*b*) Classics for Reading ..... 1 unit

Two from each of the following groups:

GROUP I.—PROSE FICTION.

Malory's *Morte d'Arthur* (about 100 pages); Bunyan's *Pilgrim's Progress,* Part I; Swift's *Gulliver's Travels* (voyage to Lilliput and to Brobdingnag); Defoe's *Robinson Crusoe,* Part I; Goldsmith's *Vicar of Wakefield;* Frances Burney's *Evelina;* Scott's Novels, any one; Jane Austen's Novels, any one; Maria Edgeworth's *Castle Rackrent,* or *The Absentee;* Dickens' Novels, any one; Thackeray's Novels, any one; George Eliot's Novels, any one; Mrs. Gaskell's *Cranford;* Kingsley's *Westward Ho!* or *Hereward, the Wake;* Reade's *The Cloister and the Hearth;* Blackmore's *Lorna Doone;* Hughes' *Tom Brown's School Days;* Stevenson's *Treasure Island,* or *Kidnapped,* or *Master of Ballantrae;* Cooper's Novels, any one; Poe's *Selected Tales;* Hawthorne's *The House of Seven Gables,* or *Twice Told Tales,* or *Mosses from an Old Manse;* A collection of short stories by various standard writers.

GROUP II.—SHAKESPEARE.

Shakespeare's *Midsummer Night's Dream, Merchant of Venice, As You Like it, Twelfth Night, The Tempest, Romeo and Juliet, King John, Richard II, Richard III, Henry V,* and *Coriolanus;* and, if not chosen for study, *Julius Caesar, Macbeth,* and *Hamlet.*

GROUP III.—POETRY.

Palgrave's *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; *Golden Treasury* (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study); Goldsmith's *The Traveler,* and *The Deserted Village;* Pope's *The Rape of the Lock;* a collection of English and Scottish ballads, as, for example, some Robin Hood ballads, *The Battle of Otterburn, King Estmere, Young Beichan, Bewick and Grahame, Sir Patrick Spens,* and a selection from later ballads; Coleridge's *The Rime of the Ancient Mariner, Christabel,* and *Kubla Khan;* Byron's *Childe Harold,* Canto III, or IV, and *The Prisoner of Chillon;* Scott's *The Lady of the Lake* or *Marmion;* Macaulay's *Lays of Ancient Rome, The Battle of Naseby, The Armada,* and *Ivry;* Tennyson's *The Princess,* or *Gareth and Lynette, Lancelot and Elaine,* and

The Passing of Arthur (if not chosen for study); Browning's *Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, "De Gustibus—," Instans Tyrannus* (if not chosen for study); Arnold's *Sohrab and Rustum,* and *The Forsaken Merman;* selections from American poetry; with special attention to Poe, Lowell, Longfellow, and Whittier.

GROUP IV.—BIBLICAL NARRATIVE; ESSAYS, ETC.

The Old Testament, comprising at least the chief narrative episodes in *Genesis, Exodus, Joshua, Judges, Samuel, Kings* and *Daniel,* together with the books of *Ruth* and *Esther;* Addison and Steele, *The De Coverley Papers* (selections from *The Spectator*); Selections from Boswell's *Life of Johnson* (200 pages); Franklin's *Autobiography;* Selections from Irving's *Sketch Book* (200 pages) or his *Life of Goldsmith;* Southey's *Life of Nelson;* Lamb, Selections from *Essays of Elia* (about 100 pages); Lockhart's Selections from the *Life of Scott* (about 200 pages); Thackeray's Lectures on Swift, Addison, and Steele in the *English Humorists;* Macaulay's essays, any one of the following: *Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederick the Great, Madame d'Arblay;* Trevelyan's Selections from the *Life of Macaulay* (about 200 pages); Ruskin's *Sesame and Lilies,* or Selections (about 150 pages); Dana's *Two Years Before the Mast;* Lincoln's Selections, including at least the two *Inaugurals,* the *Speeches in Independence Hall* and at *Gettysburg,* the *Last Public Address,* the *Letter to Horace Greeley,* together with a brief memoir or estimate of Lincoln; Parkman's *The Oregon Trail;* Thoreau's *Walden;* Lowell's Selected Essays (about 150 pages); Holmes' *The Autocrat at the Breakfast Table;* Stevenson's *An Inland Voyage* and *Travels with a Donkey;* Huxley's *Autobiography* and selections from *Lay Sermons,* including the addresses on *Improving Natural Knowledge, A Liberal Education,* and *A Piece of Chalk;* A Collection of Essays by Bacon, Lamb, De Quincey, Hazlitt, and Emerson and later writers; a collection of letters by various standard writers.

GROUP V.—MISCELLANEOUS.

For any selection from this group a selection from any preceding group may be substituted.

Howell's *A Modern Instance, The Rise of Silas Lapham;* A Collection of Contemporary Verse (about 150 pages); A Collection of Prose Writings on Matters of Current Interest (about 150 pages); Two Modern Plays, such as Peabody's *The Piper* or Drinkwater's *Abraham Lincoln.*

(*c*) Classics for Study ..... 1 unit

One selection from each of the following groups:

GROUP I.—DRAMA.

Shakespeare's *Macbeth* or *Hamlet.*

GROUP II.—POETRY.

Milton's *L'Allegro, Il Penseroso,* and either *Comus* or *Lycidas;* Tennyson's *The Coming of Arthur, The Holy Grail,* and *The Passing of Arthur;* Browning, selections listed in GROUP III above.

GROUP III.—BIOGRAPHY.

Macaulay's life of *Johnson;* Carlyle's essay on *Burns,* with a selection from Burns' Poems; Arnold's *Wordsworth,* with brief selection from Wordsworth's Poems.

GROUP IV.—ORATORY.

Burke's speech on *Conciliation with America;* A collection of orations to include at least Washington's *Farewell Address,* Webster's *First Bunker Hill Oration,* and Lincoln's *Gettysburg Address.*

HISTORY: (*a*) The history of the United States, as outlined in the best text-books for high schools ..... 1 unit

(*b*) The history of Greece and Rome as outlined in the best text-books for high schools ..... 1 unit

(*c*) The history of England as outlined in the best text-books for high schools ..... 1 unit

(*d*) Mediæval History ..... 1 unit

(*e*) Modern European History ..... 1 unit

MATHEMATICS: (*a*) Elementary Algebra ..... 1 unit

A high school algebra to quadratic equations.

(*b*) Advanced Algebra ..... .5 or 1 unit

Review of elementary algebra and a study of quadratic equations, the binomial theorem, and progressions.

(*c*) The whole of Plane Geometry ..... 1 unit

(*d*) The whole of Solid Geometry ..... .5 unit

(*e*) Trigonometry ..... .5 unit

Plane trigonometry and spherical trigonometry through right triangles.

GREEK: (*a*) Grammar and Composition ..... 1 unit

Acquaintance with the more usual form and constructions; simple narrative in English based upon Xenophon's *Anabasis,* to be translated into Greek.

(*b*) Xenophon ..... 1 unit

The first four books of the *Anabasis.*

(*c*) Homer ..... 1 unit

The first three books of the *Iliad* (omitting II, 494—end), with study of Homeric forms, constructions, and prosody.

LATIN: (*a*) Grammar and Composition ..... 1 unit

Forms, syntax, and prosody; simple narrative in English, based upon the prose read, to be translated into Latin.

(*b*) Cæsar ..... 1 unit

The first four books of the Gallic War.

(*c*) Cicero ..... .7 unit

The four orations against Catiline.

(*d*) Vergil ..... 1 unit

The first six books of the *Æneid,* study of hexameter verse.

(*e*) Cornelius Nepos ..... 1 unit

The first fifteen lives.

French: (*a*) Elementary (Two-year course) ..... 2 units

The forms and uses of the various parts of speech, including irregular verbs; translation of 200 or more pages of modern prose into idiomatic English; translation of simple English sentences into French; emphasis on pronunciation, with phonetic drill and as much oral practice as possible. The 200 pages of reading should be selected from texts such as the following: Méras & Roth: *Petit Contes de France;* Labiche et Martin: *Le Voyage de Monsieur Perrichon;* Halévy: *L'Abbé Constantin; Contes* de Daudet; Maupassant: *Conte Choisis.*

(*b*) Intermediate ..... 1 unit

Translation of 400 or more pages of French of ordinary difficulty; composition.

German: (*a*) Elementary (Two-year course) ..... 2 units

Inflection, including the most common strong verbs; the ordinary laws of German syntax; translation of 200 or more pages of easy German into idiomatic English; translation of simple English sentences, based upon passages read, into German.

(*b*) Intermediate ..... 1 unit

Translation of 400 or more pages of German of ordinary difficulty.

Spanish: Elementary (Two-year course) ..... 2 units

Pronunciation: a thorough drill in Spanish sounds, with oral reading and class-room conversation. Grammar: a complete grounding in syntax; verbs, regular, radical-changing, and irregular, in the various moods, tenses, and constructions; nouns, pronouns, adjectives, and adverbs, including the more frequent idioms; conjunctions and prepositions; common idioms. Reading: translation of approximately 200 pages of easy Spanish prose into English, with special attention to idiomatic rendering. Composition: translation of English sentences into Spanish, based on the grammar and class reading. The 200 pages of reading should be selected from texts such as the following:

Gorostiza, *Cintigo pan y zebolla;* Henry, *Easy Spanish Plays;* Luquiens, *Elementary Spanish Reader;* Rorado, *Primeras lecturas en español;* Harrison, *Elementary Spanish Reader;* Roessler and Remy, *First Spanish Reader;* Walsh, *Primer libro de lectura;* Harrison, *Intermediate Spanish Reader;* Hatheway and Berge Soler, *Easy Spanish Reader;* Wilkins, *Beginners' Spanish Reader;* Valera, *El pájaro verde;* Bransby, *Spanish Reader.*

For a detailed statement of entrance requirements in Spanish the student is referred to the report of the Committee on a Two Year Course in Spanish for High Schools. Copies may be obtained from Dr. S. E. Leavitt, Chapel Hill.

General Science:* ..... .5 or 1 unit

A course such as is contained in Caldwell and Eikenberry's General Science; laboratory work. *Holden's Real Things in Nature will not be credited for this work.*

Botany:* ..... .5 or 1 unit

A course such as is contained in any standard text-book; laboratory work.

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* A credit of one unit is given only when the course is accompanied by laboratory work, a suitable record of which is kept in a notebook. In case the laboratory work is omitted only .5 unit will be allowed.

CHEMISTRY:* ..... .5 or 1 unit
A course such as is contained in any standard text-book; laboratory work.

PHYSICS:* ..... .5 or 1 unit
A course such as contained in Millikan and Gale's *Physics* or Carhart and Chute's *High School Physics;* laboratory work such as is outlined in Millikan and Gale's *Physics.*

ZOOLOGY:* ..... .5 or 1 unit
A year's course such as is contained in any standard text-book; laboratory work.

PHYSIOGRAPHY:* ..... .5 or 1 unit
A course such as is contained in any standard text-book; laboratory work or its equivalent.

PHYSIOLOGY: ..... .5 unit
A course such as is contained in any standard text-book.

CIVICS: ..... .5 unit
A course such as is contained in any standard text-book.

DRAWING: ..... 1 unit
A year's work, including simple geometrical plane and solid figures, simple pieces of machinery, elementary rules of perspective, light, and shade, as applied in freehand sketching.

VOCATIONAL SUBJECTS

The University will accept, as elective units for entrance, work in the vocational subjects outlined below, to the value of not more than three units. Credit will be allowed for these subjects only after special investigation as to the merit of the work done. The content of these courses is essentially the same as that adopted by the Association of Colleges and Preparatory Schools of the Southern States.

GENERAL AGRICULTURE: ..... 2 units
A four-year course consisting of three recitation periods and two double laboratory periods a week, extending through four school years.

BOOKKEEPING: ..... 1 unit
A one-year course covering the simple forms in single and double entry bookkeeping.

COMMERCIAL ARITHMETIC: ..... 1 unit
A one-year course such as is contained in any standard text-book of commercial or business arithmetic.

COMMERCIAL GEOGRAPHY: ..... .5 unit
A half-year course such as is contained in any standard text-book.

STENOGRAPHY AND TYPEWRITING: ..... 1 unit
Credit will be allowed for work in these two subjects only if presented together. Neither subject will be credited separately.

MANUAL TRAINING: ..... 2 units
A total of not more than two units may be presented from the list of courses in shop work recommended by the Committee on Manual Training of the Southern Commission on Accredited Schools. The time required for each unit is to be not less than 240 sixty-minute hours.

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* A credit of one unit is given only when the course is accompanied by laboratory work, a suitable record of which is kept in a notebook. In case the laboratory work is omitted only .5 unit will be allowed.

EXPENSES

Every effort is made to reduce to the lowest point the necessary expenses of an education at the University. The entire annual expenses need not exceed $500 and they frequently may be reduced to $400.

Tuition and Fees

College of Liberal Arts:

Tuition fee each quarter	$20.00
*Registration fee each quarter	12.00
Publications fee each quarter	1.83
Laundry fee each quarter	8.50
Total each quarter	$42.33

School of Engineering:

Same as for the College.

School of Applied Science:

Same as for the College.

School of Education:

Same as for the College.

School of Commerce:

Same as for the College plus an additional fee of $1.00 for materials for each quarter.

School of Public Welfare:

Same as for the College.

Graduate School:

Same as for the College.

* This fee includes the gymnasium fee, the library fee, the fee for attendance of the University physician, the fee for debates.

School of Law:

Tuition for fall and spring terms, each	$37.50
*Registration fee each term	18.00
Publications fee each term	2.75
Laundry fee each term	12.75
Total	$71.00

School of Medicine:

*Tuition fee, including all fees, each quarter	$67.00
Publications fee each quarter	1.83
Laundry fee each quarter	8.50
Total each quarter	$77.33

School of Pharmacy:

Same as for the College.

FEES

LAUNDRY FEE: Students will be required to send their washing to the University Laundry for which a deposit will be collected at the time of registration.

LABORATORY FEES: Every student taking a laboratory course must pay, in addition to his tuition fee, a small fee for power or materials used in the laboratory. The fees for the various laboratory courses are as follows:

BOTANY

1	$4.00	10-11	$4.00 a quarter
2	4.00	107-108-109	4.00 a quarter
4-5-6	$4.00 a quarter	110-111-112	4.00 a quarter

CHEMISTRY

1-2	$ 4.00 a quarter	61	$ 7.00
1-2E	4.00 a quarter	62	7.00
11-12	7.00 a quarter	63	7.00
21-22-23	10.00 a quarter	64	7.00
31	10.00	73	5.00
35	10.00	81	4.00
41	10.00	82	4.00
42	10.00	117-118-119	10.00 a quarter
45	7.00	127-128-129	10.00 a quarter
46	7.00	177-178-179	10.00 a quarter
47	7.00	197-198-199	10.00 a quarter

COMMERCE

A	$ 3.50 a quarter	7	$ 2.00
1-2-3	3.00 a quarter	9	2.50
4-5-6	3.00 a quarter	20-21-22-23	1.00 a quarter

* This fee includes the gymnasium fee, the library fee, the fee for attendance of the University physician, the fee for debates.

ENGINEERING

6abc	$ 2.00 a quarter	50abc	$ 5.00 a quarter
11bc	2.00 a quarter	60abcs	5.00 a quarter
16c	2.00	61abc	4.00 a quarter
22ac	2.00 a quarter	62abcs	4.00 a quarter
23s	10.00	63abcs	5.00 a quarter
26abc	2.00 a quarter	64abc	7.00 a quarter
32bc	2.00 a quarter	85abc	5.00 a quarter
35abc	2.00 a quarter	93abcs	5.00 a quarter
45abc	3.00 a quarter	94abc	5.00 a quarter

GEOLOGY

1-2	$ 3.00 a quarter	18-19-20	3.50 a quarter
3-4	5.00 a quarter	21-22	2.50 a quarter
5	3.50	23	2.50 a quarter
11-12	3.50 a quarter	24-25	2.50 a quarter
13	3.50	26	2.00
14	3.50	27-29	3.50 a quarter
15-16	3.50 a quarter	61	3.50
17	3.50 a quarter	71-72-73	3.50 a quarter
		74-75-76	3.50 a quarter

PHARMACOLOGY

32	$ 5.00

PHARMACY

8	$ 5.00	35-36	$ 7.00 a quarter
15-16	5.00 a quarter	38	7.50
25	5.00	40	10.00
27	5.00	41	5.00
28	10.00	43-44	7.00 a quarter
29	5.00		

PHYSICS

1	$ 2.50	6	$ 2.00
2	4.00	8	2.00
1-2-3E	2.50 a quarter	9	2.50
5	2.50	12	5.00

PSYCHOLOGY

1-2	$ 1.00 a quarter	36-47-51-52-53	$ 2.00 a quarter
22-25-45-46	1.00 a quarter	101-102-103	2.00 a quarter
26-35	1.50 a quarter		

ZOOLOGY

1b	$ 5.00	6-7-8	$ 3.00 a quarter
2b	5.00	9	5.00
3	5.00	109-110-111	5.00 a quarter
4	5.00	112 (1)	5.00 a quarter
5	5.00	112 (½)	3.00

Board

Excellent board is furnished at Swain Hall for $22.00 a month. A few students can earn their board by waiting on the tables.

Board without room can be obtained in the town from $22.50 to $35.00 a month.

Dormitory Accommodations

Accommodations for nearly thirteen hundred students are available in the University dormitories. For a list of the dormitories see pages 29-30.

All rooms in the dormitories are completely furnished. Students will, however, provide their own pillow, bed linen (for single beds), and towels.

Room rent ranges from $5.00 to $9.50 a month for each occupant, the price depending upon the location of the room. This charge includes light, heat, and service.

PECUNIARY AID

FELLOWSHIPS AND SCHOLARSHIPS

The Ledoux Fellowship in Chemistry. (Established in 1911 by Dr. Albert R. Ledoux). The holder is expected to devote himself to research in chemistry. This fellowship is endowed, and yields $300 annually.

The Graham Kenan Fellowship in Philosophy. A fellowship supported by the income from an endowment of twenty-five thousand dollars, established in 1921, by Mrs. Graham Kenan, in memory of her husband, an alumnus and trustee of the University. This fellowship is awarded annually by Professor Henry Horace Williams.

The Moore Scholarships. (Established in 1881). Bartholomew Figures Moore, of Raleigh, bequeathed $5,000, the interest of which shall be devoted to paying the tuition of students.

The Mary Ruffin Smith Scholarships. (Established in 1885). Miss Mary Ruffin Smith bequeathed to the University, in memory of her brother, Dr. Francis Jones Smith, a valuable tract of land in Chatham County of 1,460 acres, known as Jones' Grove. The will provides that rents of the land, or the interest on the purchase money if sold, shall be used to pay the tuition of such poor students as the faculty shall appoint.

The Mary Ann Smith Scholarships. (Established in 1891). Miss Mary Ann Smith bequeathed $37,000 for the foundation of scholarships, the number of scholarships to be determined by the amount of the income.

The Cameron Scholarships. (Established in 1892). The heirs of Paul Carrington Cameron founded in his memory ten scholarships of the value of $60 each.

The Speight Scholarships. (Established in 1892). The late Mrs. Mary Shephard Speight bequeathed $10,000 to the University. The income shall be used to pay the tuition of needy students; but if tuition is ever made free, the income shall be used toward paying the salaries of the professors.

The Wood Scholarship. (Established in 1892). Mrs. Mary Sprunt Wood, of Wilmington, has founded, in memory of her late husband, Dr. Thomas Fanning Wood, a scholarship of the value of $60.

The Dialectic and Philanthropic Literary Societies' Scholarships. (Established in 1893.) The Dialectic and Philanthropic Literary Societies of the University founded two scholarships of the value of $60 each, recipients of which shall give assistance in the Library.

THE WEIL SCHOLARSHIP. (Established in 1898). A fund established by Mr. Henry Weil, of Goldsboro, furnishes one scholarship of the value of $60.

THE ARMFIELD SCHOLARSHIPS. (Established in 1901 and 1904). These scholarships were founded by the generosity of the late Mr. Eugene M. Armfield, of High Point, N. C., a member of the class of 1888.

THE KENNETH MURCHISON SCHOLARSHIPS. (Established in 1904). These scholarships have been founded by Mrs. Shirley Carter, of Baltimore, Md., and the late Mrs. James Sprunt, of Wilmington, N. C., in memory of their father. They are awarded by the founders.

THE DONALD FAIRFAX RAY SCHOLARSHIP. (Established in 1919). Mrs. N. W. Ray, of Fayetteville, N. C., has established this scholarship in memory of her son, Donald Fairfax Ray, a graduate of the University, who died while in the service of his country.

THE MILDRED WILLIAMS BUCHAN SCHOLARSHIP. (Established in 1920). A fund of one thousand dollars was given by Mr. Edward Robertson Buchan in memory of his wife. The income of this fund is to support a scholarship in the Department of Philosophy.

THE HOLT SCHOLARSHIPS. Four scholarships, valued at one hundred and twenty-five dollars each, are maintained by the income from the Holt Loan Fund, established in 1920 by Mr. Lawrence S. Holt, Jr. They are awarded by the Committee on the Holt Fund, to a member of each of the four classes in the Academic Department. Applications are considered after the opening of the University in the fall.

THE ALUMNI SCHOLARSHIPS. These scholarships have been established by the gifts of Alumni. A scholarship will be awarded for each $1,000 given.

THE R. H. LEWIS SCHOLARSHIPS. Four scholarships, endowed by the University Gymnasium Association, and called The R. H. Lewis Scholarships, are assigned by the President, and are good for tuition in the Academic Department.

THE MRS. AUGUSTUS H. JONES SCHOLARSHIP, created by a gift of two thousand dollars from Mrs. James H. Parker, of New York City, the income to be used for one scholarship. The recipient of this scholarship is to be designated by Mrs. James H. Parker during her life and thereafter upon recommendation of the New York Chapter of the United Daughters of the Confederacy. Failing this recommendation from either source appointment is to be made by the President of the University, preference being given first to the relatives of the late Dr. James H. Parker, of New York, and second to the relatives of the donor.

None of these scholarships is open to students in the Schools of Law, Medicine, and Pharmacy.

All applications for scholarships must be filed in the President's office on or before August first, and must be in the regular form prescribed by the University. Blank forms are supplied on application to the President.

FREE TUITION

By an act of the Legislature in 1887, free tuition is given to candidates for the ministry, to the sons of ministers, to young men under bodily infirmity, to teachers, and to young men preparing to teach. In order to secure this free tuition, young men preparing to teach must agree to teach in North Carolina for at least two years after leaving the University. Such students must have their work under the supervision of the Dean of the School of Education in order to insure their being prepared to teach when they have completed their work here. This enables the University to aid affectively the public school teachers of the State.

LOAN FUNDS

The Deems Fund. (Established in 1879). A fund of $600 was established by Rev. Charles Force Deems, D.D., late pastor of the Church of the Strangers, New York City, formerly a professor in the University, in memory of his son, Lieut. Theodore Disosway Deems. In 1881 the gift was greatly enlarged through the munificence of Mr. William H. Vanderbilt by a gift of $10,000 "as an addition to the Deems fund, to be loaned to indigent students of the University."

The Martin Fund. This fund has been established by the bequest of Mr. Thomas D. Martin, of Raleigh. Only the interest of the fund can be used for loans. It became available during the session of 1907-1908.

The Hogue Fund. A fund of $4,000 has been established by the Rev. R. W. Hogue, of Baltimore, the income from which is to be loaned to worthy students in the University.

The Hewitt Fund. A fund of $20,000 was established by the bequest of Mr. Joseph Henry Hewitt, of Princess Anne County, Virginia. Only the income from this fund can be used for loans to "needy and deserving students" of the University. This fund became available during the session of 1919-1920.

The Holt Fund. A fund of $10,000 has been established by Mr. Lawrence S. Holt, Jr., of Burlington. The principal of this fund is to be loaned to "worthy and needy students of the University." The income from this fund is to be used in establishing four scholarships in the University. It became available during the session of 1920-1921.

THE VICTOR S. BRYANT FUND. A fund of $7,500 has been established by the request of Mr. Victor S. Bryant, of Durham. Only the interest of this fund can be used for loans to "worthy and needy young men" at the University. This fund became available during the session of 1920-1921.

THE MASONIC LOAN FUND. A fund of $1,250 has been established by the Grand Lodge of Masons, the Grand Chapter of Royal Arch Masons, and the Grand Commandery of Knights Templar of North Carolina, for the purpose of "assisting worthy boys and girls to secure an education." The principal of this fund is loaned, and the interest is added thereto. The fund became available in the fall of 1922.

THE SEELY FUND. A fund of one thousand dollars has been established by Mr. F. L. Seely of Asheville, the principal of which is to be loaned to worthy and needy students, and the income therefrom to be added to the principal. This fund became available during the fall of 1922.

THE E. S. BLACKWOOD MEMORIAL LOAN FUND, created by bequest of Miss Katherine B. Blackwood, of New York City. This fund consists of ten thousand dollars "to be used as a loan fund for needy students." This fund is administered in the same manner as the Deems Fund.

Applications for loans will be considered when made in person by students registered in the University. The funds are limited in amount and are loaned only on the security of two approved signatures and at the legal rate of interest. Application should be made to the Dean of Students.

Self Help

It is confidently believed that no institution offers wider opportunity for self-help to meritorious students of slender means. The desire is that no worthy boy, however poor, shall ever be turned away for lack of means. To such the University and town offer unusual opportunities for support. Many students are now working their way through college by every form of honorable labor. A number are here as a result of money earned or borrowed. A few students are selected by the authorities as waiters at Swain Hall. Otherwise all opportunities available in the University and town must be secured by the personal efforts of the individual, or with the assistance of the Faculty Committee on Self-Help of which Mr. H. F. Comer is secretary. They are not assigned by the President.

MEDALS AND PRIZES

The Mangum Medal in Oratory. (Established in 1878.) A gold medal founded by the Misses Mangum, late of Orange County, in memory of their father, Willie Person Mangum, Class of 1815, is continued by his granddaughter, Mrs. Stephen B. Weeks, and awarded to that member of the Senior Class who shall deliver the best oration at Commencement.

The Early English Text Society Prize. (Established in 1886). A special prize is offered annually by the Early English Text Society of London for advanced work in Anglo-Saxon and Middle English.

The Eben Alexander Prize in Greek. (Established in 1887). A prize of $10 is offered annually to that member of the Sophomore Class who shall present the best rendering into English of selected passages of Greek not previously read.

The Kerr Prize in Geology and Mineralogy. (Established in 1889). A prize of $50 is offered annually by Mr. William H. Kerr in memory of his father, Professor Washington Caruthers Kerr, to any undergraduate or graduate student for the best thesis containing original work in the geology or mineralogy of North Carolina.

The Bingham Prize in Debate. (Established in 1899). This prize is offered by Mr. R. W. Bingham in memory of his great-grandfather, grandfather, father, and brother. It is given annually for excellence in debate. The contestants are representatives of the Literary Societies, and the contest is held on Monday evening of Commencement week.

The Bryan Prize. (Established in 1903). A prize will be given annually by Mr. William Jennings Bryan for the best thesis in Political Science.

The Hunter Lee Harris Memorial. (Established in 1903). Dr. Charles Wyche, of St. Louis, offers annually, in memory of Hunter Lee Harris, of the Class of 1889, a gold medal for the best original story by any student in the University.

The William Cain Prize in Mathematics. (Established in 1908). A gold medal is offered annually by Professor William Cain to that student who shall take the highest rank in Mathematics 4-5. No student will be recommended for the prize unless he attain to grade B.

THE PRESTON CUP, given by the Hon. E. R. Preston in memory of his brother, Ben Smith Preston, will be awarded annually to the undergraduate student who during the months September to April has done the best work of a journalistic nature.

MARY D. WRIGHT MEMORIAL MEDAL, given by Mr. P. E. Wright of Landis. A $25 gold medal will be awarded to the best speaker on the winning team of the two Literary Societies in their annual debate held in December.

THE PATTERSON MEDAL. (Established in 1924.) A gold medal is offered annually by Lieutenant Commander D. F. Patterson, U. S. N., Mr. Albert F. Patterson, and Dr. Joseph F. Patterson to commemorate the memory of their brother, John Durand Patterson. This medal is awarded for general excellence in athletics to a student selected by a special committee.

Certain prizes are offered also in the Professional Schools of Law, Medicine, and Pharmacy. For these, see under the several schools.

REGULATIONS

The catalogue, issued in the spring of each year, is intended to give such a description of the work of the University and such a digest of its rules as are needed by students. Neither the courses announced nor the rules given are valid beyond the succeeding year, for before the end of the succeeding year a new catalogue will have been issued, superseding all previous catalogues. Ordinarily a student may expect to be allowed to secure a degree in accordance with the requirements of the curriculum laid down in the catalogue in force when he first entered the University, or in any one subsequent catalogue published while he is a student; but the faculty reserves the right to make changes in curricula, as in rules, at any time when in its judgment such changes are for the best interests of the students and the University.

REGISTRATION

All students are expected to present themselves for registration *Tuesday* or *Wednesday, September 15* or *16, 1925,* between the hours of 9 a. m. and 5 p. m., at the places announced in the plan for registration. For the winter and spring quarters the same hours will be used for Freshmen and Sophomores on days fixed by the calendar for the registration of students. All other students must register during the examination periods in December and March according to a schedule published immediately before these examinations begin. Registration in case of such students is not considered as completed until they have attended all their classes on the first day of the new quarter.

DELAYED REGISTRATION

The penalty for delayed registration for the winter and spring quarters is one month of strict probation for each day of delay. No excuses will be accepted.

Each student registering later than the day appointed for his registration for the winter or the spring quarter must pay five dollars ($5.00) as an additional fee for delayed registration.

ARRANGEMENT OF COURSES

Every student, when he presents himself for registration, must submit a list of courses, required and elective, which he desires to pursue.

No student will be allowed to take fewer than three nor more than three and one-half courses without special permission of his Dean.

Students desiring to change their courses must make written application to their respective Deans for the desired changes. The application will be considered by the Dean and will be granted only after a careful consideration of the facts in each case. No changes will be

permitted after the first Tuesday following the registration days except such as are granted after application to, and approval by, the Faculty. A fee of twenty-five cents will be charged for each item of change.

ASSIGNMENT OF ROOMS

The rooms in the University dormitories are assigned to students by the Treasurer in the order of application, subject to the special regulations given below.

The University reserves the right to require any student whom for any reason it considers an undesirable tenant to vacate a room in the University buildings.

All occupants are required to sign a contract, subject to the following special rules:

In order to retain his room for the next session, a student must file with the Treasurer before June 15, a room contract properly signed and a deposit of $5. Double rooms must be signed for by both intending occupants. The rooms thus signed for will be retained until September 1, when balance of rent is due. The $5 deposit will be forfeited in case the signer or signers do not themselves occupy the room and pay the full rent. Rooms not signed for or made vacant by failure to pay at the proper date will be assigned in the order of application.

The right to occupy a room is not transferable and terminates with the expiration of the lease. Any attempt on the part of an occupant of a room to sell or transfer his right to occupancy shall be deemed a fraudulent transaction. The penalty for violating this rule shall be the forfeiture of the room by the new lessee.

The occupant of a room will be held directly responsible for any damage done to the furniture in his room or to the room.

No dogs shall be kept in the University dormitories. Breach of this regulation leads to forfeiture of the room.

CONDUCT

By order of the Board of Trustees the Faculty is directed to dismiss from the University any student who is known to engage in drinking intoxicating liquors, gambling, hazing in any form (presence at hazing is regarded as participation), or to be guilty of dissolute conduct.

Students persistently neglectful of duty, or addicted to boisterous conduct or rowdyism, may be required to leave the University.

Honorable dismissal has reference to conduct and character only. It will not be granted unless the student's standing as to conduct and character is such as to entitle him to continue in this University. Furthermore, in every statement of honorable dismissal full mention

will be made of any probation, suspension, or other temporary restriction imposed for bad conduct which is still in force when the papers of dismissal are issued.

Statement of record has reference to the recorded results of a student's work in the classroom. It will in every instance contain all the important facts pertaining to the student's admission, classification, and scholarship. In particular, no partial or incomplete classroom record (for example, with failures omitted) will be given without clear evidence that it is partial or incomplete. If the student's scholarship has been such as to prevent his continuance in this University or to render him subject to any probation, suspension, or other temporary restriction which is still in force at the date of the record, a plain statement of any and all such facts will be included, and such information will be given as will make clear the system of grades employed, the number of exercises a week devoted to each course, etc.

ATTENDANCE

Regular attendance upon lectures and recitations is required of all students.

In any quarter, absences are counted from the first regular meeting of each class. In no case will a student be considered present at any class until he has been registered as a member of that class.

When a student's absences from a class during any quarter amount to ten in a full course or six in a half-course, he may, at the discretion of the Dean of his College or School, be dropped from the course. The Registrar will notify the Dean of his College or School when a student has incurred absences amounting to three in a full course or two in a half-course. At the same time the Dean will be supplied with a statement of the number of absences warranted by the University Physician's report or by a leave of absence. When at least half the absences of a student in any course are due to prolonged sickness or to leaves granted by the Registrar, or to representing the University as a member of an authorized student organization, the student ordinarily will not be dropped from such course.

A student who has been dropped for absences from a sufficient number of classes to reduce his schedule to one course will be suspended from the University for the remainder of the quarter on the ground of neglect of duty.

The grade of a student who quits a course without the permission of the Dean of his College or School is recorded officially as F.

A student who is absent from any class without permission on the day immediately preceding or immediately following a holiday or recess shall go on strict probation for thirty days. Any student may appeal his case in writing within five days to the Executive Committee.

In the College of Liberal Arts, not more than fifty juniors and seniors whose grades have averaged at least B in the preceding quarter will be relieved of the regulations governing absences, so that absence from any class shall not carry any penalty imposed for absence alone. The roll of students who are granted this privilege is known as the Dean's List. Any student placed on this list will be withdrawn from it at the end of any quarter in which his grades have fallen below an average of B.

Attendance at chapel is required of Freshmen every week-day except Saturday and of Sophomores and Juniors on Mondays and Fridays. Absence from chapel will subject the student to discipline by the Executive.

No student is allowed to absent himself from the University without written permission from the Registrar or his representative. This permission may, at the discretion of the executive officer, be granted only upon the formal request of the parent or guardian.

EXAMINATIONS

Regular written examinations are required at the end of each quarter in all courses except those the nature of which is such as to make written examinations unnecessary.

Special examinations for students who have been officially excused from regular examinations on account of sickness or have been absent on account of some necessary cause may be held at suitable times fixed by the Registrar and the instructors concerned. Such examinations must be taken within twelve (12) months of the date of absence.

Special examinations may be taken by students who have received the condition grade (E) or have been officially excused within the preceding twelve (12) months from regular examinations at the period of special examinations in the week preceding the opening of the session in September.

Provided he has no conflict with a course regularly taken by him in the term such a student may take an examination at the *first* regular term examination in the same subject after he has made the grade E or has been officially excused.

Under no circumstances may a student stand a special examination to remove a condition grade (E) between the first and the last class days in any quarter.

To be entitled to take a special examination in term, or at the September period, or at a regular term examination period, the student is required to file with the Registrar at least one week prior to the examination period a written notice that he desires to take such examination. Final examinations except in laboratory practice may not be held at any times other than those specified in the preceding regulations.

No examinations may be held later than 6:30 p. m.

All examinations must be held in Chapel Hill.

Examinations should be limited to a period of two hours. In courses in which a considerable portion of the examination is of a *practical* nature, the instructor may extend the time in his discretion.

No students other than the following should be permitted to take the examination in any course: 1st—regularly enrolled members of the class whose names have been reported from the Registrar's office to the instructor as having registered in due form for the course; and 2nd—those whose names have been reported from the Registrar's office as having the right to take special examinations on that course.

Students absent from an examination without an official excuse or present and failing to submit examination papers are reported "absent." This mark is equivalent in every respect to grade F or failure, and is so reckoned in the office of the Registrar.

Each student is required to subscribe his name to the following pledge or its equivalent on every paper: I hereby certify that during this examination I have neither given nor received aid. The instructor should not report a grade for any student whose examination paper lacks this pledge.

Papers handed in at a special examination by students who have been officially excused from the regular examination will be graded. All others will be marked "passed" or "failed."

Schedules of examinations at the ends of the terms and in September are to be so arranged that examinations set for the last day of the period shall be set for the first day of the next period.

The order of examinations for the removal of conditions in September, 1924, will be as follows:

Wednesday, September 9

10 A. M.	Botany	2:30 P. M.	Geology
	Engineering		Psychology
	Latin		Rur. Econom.

Thursday, September 10

10 A. M.	Education	2:30 P. M.	Chemistry
	English		Commerce
	German		Philosophy

Friday, September 11

10 A. M.	Music	2:30 P. M.	Economics
	Hist. and Govt.		Romance Lang.
	Mathematics		Zoology

Saturday, September 12

10 A. M.	Comp. Lit.	2:30 P. M.	
	Greek		
	Physics		
	Sociology		

STANDING

After the close of each term reports of the standings of all students in all their studies are sent to parents or guardians. The reports are based upon the following systems of marking:

Grade A, Excellent.
Grade B, Good.
Grade C, Fair.
Grade D, Barely passed.
Grade E, Conditioned.
Grade F, Failed.
Grade I, Work incomplete.

A student must attain a grade of D to pass in any study. Grade E indicates that the student is conditioned but may remove the deficiency by special examination, as explained above. Students receiving grade F must repeat the study to receive any credit for the same.

A student has the right to appeal as to the grading of his examination paper by his instructor. The appeal must be made to the President within three months after the examination. The President will appoint a committee of three persons who shall consider the case and whose decision shall be final.

A student to be ranked as a Sophomore must have passed seven courses; to be ranked as a Junior, fifteen courses, to be ranked as a Senior, twenty-six courses.

No first-year student who fails to pass at least five courses, and no second or third-year student who fails to pass seven courses, shall be readmitted to any division of the University the following year except by a special vote of the Faculty or a delegated committee of the Faculty.

GRADUATION

Each Senior will be officially informed by the Registrar in September of all deficiencies standing against him.

The number of orations in the contest for the Mangum Medal is limited to four. The candidates must be Seniors in the College, the School of Applied Science, the School of Engineering, the School of Education, or the School of Commerce, and must announce their subjects to their respective Deans by February 1. The orations shall be delivered in private on May 1, before a committee of the Faculty, who shall decide upon the relative merits of the orations. The four successful candidates are known as the Commencement Orators of the Senior Class.

FRATERNITIES

GENERAL REGULATIONS. Students may join fraternities after registration at the opening of any quarter or term provided they are eligible under the special regulations of the Faculty. Pledging of a student to join a fraternity is not allowed until he has been in the

University a specified length of time as follows: If he matriculates for the first time in the University in the Summer School or in the fall quarter, he may not be pledged until the pledge date in December; if in the winter quarter, until a similar date in March; if in the spring quarter, until a similar date in May. The pledge dates shall be determined and published by the Pan-Hellenic Council not later than as follows: for the fall quarter, October fifteenth; for the winter quarter, January twenty-fifth; for the spring quarter, April tenth. These pledge dates shall fall within a period between ten and fifteen days prior to the first day of the examination period for each quarter. No student may be pledged during the Summer School, but if a student remains in the Summer School for the full twelve weeks, it may be counted for him as a regular quarter towards meeting the requirement as to residence. A student entering the University with advanced standing, whether he enters an academic or a professional school, may not be pledged until four weeks after the date of his matriculation in this institution, but in no case may a student be pledged during the Summer School.

ATHLETICS

Organization

I. *The Faculty Committee on Athletics,* consisting of seven members, controls and directs all matters pertaining to the general athletic policy of the University, the eligibility of players, and the approval of schedules.

II. *The Athletic Council,* consisting of the graduate manager, the managers of all athletic teams, the editor of the *"Tar Heel,"* a member from the student body at large, and a member of the faculty, apportions the athletic funds.

III. *The Alumni Athletic Council,* consisting of the graduate manager and five alumni, one of whom must be a member of the faculty, has entire charge of the coaching staff.

The eligibility of players on the University athletic teams is governed by the Rules of Eligibility of the Southern Conference (see pages 72-74 and the following:

1. No student will be allowed to take part in athletic contests entailing absence from the University whose parent or guardian objects to such participation.

2. A student must have passed satisfactory examinations upon at least two full courses or their equivalent in his last quarter of attendance before he will be allowed to represent the University in any athletic contest. No student may be a candidate for the baseball team unless he has been in attendance during the preceding winter quarter without the express permission of the Faculty Committee on Athletics.

3. Inasmuch as a member of an athletic team of this University enjoys special honor in thus representing the University, this privilege shall be withheld from any student whose scholastic standing is

discreditable. Any student reported as deficient in a majority of his classes may be prohibited by the Dean of his school from participating in any intercollegiate contest until the deficiency is made good.

4. No team will be allowed to be absent from the University for more than ten lecture days during any quarter.

5. The manager of each athletic team shall submit to the Faculty Committee on Athletics a schedule of all engagements before positive arrangements are made.

6. No student shall play upon any athletic team except after physical examination by the Director of the Gymnasium (or by a responsible expert officer of the University acting in his stead and at his request) and with the approval of the Director.

7. Before any student can become a member or a substitute member of any athletic team of the University and take part in any intercollegiate contest he must make application to the Faculty Committee on Athletics and secure the endorsed approval of that committee to his application. It shall be the duty of the Faculty Committee on Athletics to have the Registrar of the University indorse such application to the effect that the applicant is a registered student of the University and has completed the scholastic requirements.

8. It is the duty of the Faculty Committee on Athletics to inquire into the athletic record of the applicant and it shall be the duty of the applicant to appear before the committee and answer on his honor such questions as the committee may see fit to ask.

9. It is the duty of the Faculty Committee on Athletics to require a pledge in writing of the applicant, certifying on his honor that he has never accepted, directly or indirectly, remuneration, compensatory gift, valuable consideration, or promise thereof for his athletic services. The applicant must satisfy the committee that he is in the proper and strict sense of the word an amateur before the committee indorses his application.

10. It is the duty of the graduate manager, the members of the coaching staff, the president and the treasurer of the Athletic Association, the members of the Athletic Council, the director of the gymnasium, and the captain of the team concerned to furnish the Faculty Committee on Athletics, on request, a statement to the effect that each member of an athletic team is above their suspicion as to his eligibility to represent the University as an amateur before such player shall be allowed to take part in any contest.

Rules of Eligibility of the Southern Conference

The following rules apply to all sports:

Rule 1.—*Bona Fide Students.* No one shall participate in any intercollegiate contest unless he is a bona fide matriculated student, with at least 15 Carnegie units, regularly enrolled and doing full work as defined by the regulations of the institution in which he is enrolled.

A student in special argricultural or other special courses who does not present the full entrance credits is not eligible under this rule.

Rule 2.—No person shall participate in intercollegiate athletics at an institution until after the expiration of twelve months from the date of his matriculation there, and until he shall have completed the scholastic requirements of that institution.

Rule 3.—*Attendance.* No student having been a member of any athletic team of his college during any year and having been in attendance less than six months of the college year shall be permitted to participate in any intercollegiate contest thereafter until he shall have been in attendance six calendar months.

Note.—Attendance during Summer Session is not counted as "attendance" for the purpose of this rule.

Rule 4.—*Migrant Students.*

(a) No person who has participated in any intercollegiate contest or freshman contest† in any branch of sport as a member of the team of any other college* shall be permitted to participate in any intercollegiate contest in the same branch of sport as a member of a team of any Institution in this Conference.

(b) Students who have pursued courses of study at one university or college* but who have not participated in any intercollegiate contest, shall be eligible to participate in intercollegiate athletics at another institution, but only when they have satisfied the conditions as set forth in Rule 2—the one-year residence rule.

Rule 5.—*Limit of Participation.* Participation in intercollegiate athletics shall be limited to three years, within a five-year period counting from the time of first matriculation. Participation in any intercollegiate sport in any college year shall constitute one year of athletic participation.

Rule 6.—*Compensation.*

(a) No person who receives any compensation from his institution for services rendered by way of regular instruction shall be allowed to participate in intercollegiate contests.

(b) No person shall be allowed to participate in any intercollegiate contest who receives any gift, remuneration, or pay for his services on a college team.

(c) No person shall be permitted to participate in any intercollegiate contest who has ever used or is using his knowledge of athletics or his athletic or gymnastic skill for gain.

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† For the purpose of this rule an intercollegiate contest is a contest played by the Varsity or freshman team. This rule does not affect the limit of participation as defined in rule 5.

* *Definition of "College."* The word "college" as used in this code means any educational institution having in attendance at least one hundred male students of college grade and requiring for admission fourteen Carnegie units, or is a member in full standing of the Southern Intercollegiate Athletic Association.

Note.—This rule does not apply to any person who has done work in connection with a playground or a summer camp where the requirements do not call for a man with technical preparation in physical training.

(d) The following persons shall be ineligible to compete on any team in this Conference:

(1) Those who hold any scholarship, fellowship, or cadetship involving financial benefit which is awarded wholly or in part for athletic ability.

(2) Those who enjoy any loan fund or similar financial benefit which is awarded wholly or in part for athletic ability.

(3) Those who hold any position involving financial benefit which is awarded wholly or in part for athletic ability.

(e) No person shall be allowed to participate in any intercollegiate contest who holds for more than one year any scholarship, fellowship, or cadetship involving financial benefit, unless the fact of his holding such scholarship, fellowship, or cadetship be published in the catalogue or other similar official publication of the institution in question.

Rule 7.—*Summer Baseball.* No athlete in any Conference Institution shall participate as a member of any summer baseball team without the consent of his Faculty Committee on Athletics; and such a player when given permission to play on such team shall submit at the reopening of the school term to his Faculty Committee a certified statement that he has not received pecuniary compensation therefor.

Rule 8.—No student shall be eligible to participate in intercollegiate contests if he has played on any summer baseball team which played more than three games a week while he was a member of it.

To the list of professional teams thus prescribed shall be added all league teams in any State which the Conference Institutions of such State declare professional and from which they debar their own players. In the event that said conference institutions cannot agree on prescribed teams, the executive committee shall have the power to decide the issue and their action shall be final.

Rule 9.—*Assumed Name.* No person shall take part in any intercollegiate contest under an assumed name.

Rule 10.—*Delinquency in Studies.* No student who is found delinquent in his studies by the faculty shall be permitted to participate in any intercollegiate contest.

Rule 11—*Freshman Teams.*

Freshman teams shall be composed of members of the freshman class only, who shall not compete as such for more than one year, and who shall be eligible under the general rules, with the exception of the one-year rule. For the purpose of this rule a Freshman is a student who enters the Institution from a High School or a Preparatory School.

STUDENT GOVERNMENT

The student body of the University is self-governing. The functions of this government are both disciplinary and constructive. These functions are exercised by the Student Council and the Central Administrative Council respectively.

THE STUDENT COUNCIL

William Johnston Cocke, Jr., *President.*
Jefferson Barnes Fordham, *Secretary.*

Richard Young Thorpe
William Emmett Kyle Underwood
Bunn Washington Hackney
James Lee Thompson
Dink James
James Hardin Wall

The Student Council is composed of eight members, as follows: The presidents of the three upper academic classes, one representative from each of the professional schools, one representative elected from the student body at large, and one representative elected by the other seven members of the Council. The member elected by the Council must be chosen from among those who have served on the Council before. The President of the Student Body is *ex officio* Chairman of the Council, and the President of the Junior Class is *ex officio* Secretary.

Student government, in so far as it is disciplinary, is based upon the honor system. No code of rules is laid down to direct a student what to do and what not to do. The only standards are those of morality and gentlemanly conduct. The Student Council is the head of the honor system. It is the concrete expression of the moral University. Its members being elected of the students by the students, it is grounded upon, and gives expression to, student sentiment. The Council is not an organization of policemen, nor is it based upon a system of espionage. When any student is felt by his fellow students to be unworthy to remain in the University, the Council takes cognizance of this feeling. It examines the matter, finds the facts in the case, and decides upon the course to be pursued. If the student is found guilty of conduct unworthy of a University man, he is promptly required to withdraw from the University. Among the offenses demanding withdrawal may be mentioned drunkenness, cheating on examination, and gambling.

THE CENTRAL ADMINISTRATIVE COUNCIL

William J. Cocke, Jr., President of the Student Body, *President ex officio.*
R. Y. Thorpe, President of the Senior Class.
J. M. Saunders, Editor-in-Chief of The *Tar Heel.*
J. E. Hawkins, Editor-in-Chief of the *Magazine.*

The Central Administrative Council of the student body is composed of *ex officio* members who, because of their position as duly chosen student leaders, have a large share of the responsibility for the leadership in campus life and activities during their year of office. The four men meet frequently to discuss campus problems, and to plan for the unification of the student body in various progressive measures. They call in, from time to time, other student leaders representing various phases of University life, and discuss with them their plans for their particular activity and the way in which they may better serve the University as a whole. Such meetings between student leaders, coupled with periodic assemblies of some twenty-odd student leaders and members of the Faculty Committee on Student Activities, constitute the procedure by which the expanding life of the University has been unified in form and yet kept sensitive to the needs and viewpoints of the many student interests.

PUBLIC LECTURES

THE JOHN CALVIN McNAIR LECTURES

HENRY HORACE WILLIAMS, *Chairman*

The lecture fund established by the will of John Calvin McNair, of the class of 1849, became available in 1906, and the interest therefrom rendered it possible to begin the lectures in 1908. The honorarium for the lectures amounts to $500, and the remainder of the interest from the fund provides for the suitable publication of the lectures. Under the will the objects of the lectures "shall be to show the mutual bearing of science and religion upon each other and to prove the existence of attributes (as far as may be) of God from nature."

The lectures for 1908 were delivered by Professor Francis H. Smith, LL.D., of the University of Virginia. The three lectures were:

1. The general theme: God Manifest in the Material Universe.
2. His Attributes as Manifested in Physics.
3. His Attributes as Manifested in Astronomy.

The lectures for 1909 were delivered by President Francis Landey Patton, D.D, LL.D., of Princeton Theological Seminary, New Jersey. The four lectures were:

1. The Authority of the Bible.
2. The Authority of the Church.
3. The Authority of Christ.
4. The Authority of the Reason.

The lectures for 1910 were delivered by President David Starr Jordan, Ph.D., M.D., LL.D., of Leland Stanford, Jr., University, California. The lectures were on the theme:

The Stability of Truth.

The lectures for 1911 were delivered by Professor Henry Van Dyke, D.D., LL.D., of Princeton University. The three lectures were:

1. The Poetry of Nature.
2. The Poetry of Patriotism and Humanity.
3. The Poetry of the Unseen World.

The lectures for 1912 were delivered by President Arthur Twining Hadley, A.M., LL.D., of Yale University. The three lectures on the general subject, Some Tendencies of Modern Philosophic Thought, were:

1. Changed Conceptions of Science.
2. New Views of Ethics and of Politics.
3. The Spiritual Basis of Modern Literature.

The lectures for 1913 were delivered by Professor Francis G. Peabody, A.M., LL.D., of Harvard University. The three lectures were:

1. The Practicability of the Christian Life.
2. The Christian Life and the Modern Home.
3. The Christian Life and Modern Business.

The lectures for 1914 were delivered by President George Edgar Vincent, Ph.D., LL.D., of the University of Minnesota. The title of the series was The Social Vision, and the lectures were:

1. The Sense of the State.
2. The Larger Selfishness.
3. The Kingdom of God.

The lectures for 1915 were delivered by Professor John Dewey, Ph.D., LL.D., of Columbia University. The three lectures on the general theme, Philosophy and Politics, were:

1. The Division into the Inner and the Outer World.
2. The State and Moral Life.
3. The Philosophy of History.

The lectures for 1916 were delivered by Dean Frederick J. E. Woodbridge, A.M., LL.D., of Columbia University. The title of the series was The Purpose of History, and the three lectures were:

1. From History to Philosophy.
2. The Pluralism of History.
3. The Continuity of History.

The lectures for 1917 were delivered by Professor Hugh Black, M.A., D.D., of Union Theological Seminary. The title of the series was The Great Questions of Life, and the three lectures were:

1. Is God?
2. Has God said?
3. Shall Man Say to God?

No lectures on this foundation were delivered in the years 1918 and 1919.

The lectures for 1920 were delivered by Professor Edwin Grant Conklin, Sc.D., of Princeton University. The title of the series was The Direction of Human Evolution, and the lectures were:

1. The Possibilities of Human Evolution.
2. Evolution and Democracy.
3. Evolution and Religion.

The lectures for 1921 were delivered by Professor Paul Shorey, Ph.D., LL.D., Litt.D., of the University of Chicago. The title of the series was Plato's Relation to the Religious Problem, and the lectures were:

1. Plato and the Irreligion of Pseudo-Science.
2. Plato and Natural Theology.
3. Plato and Ethical Religion.

The lectures for 1922 were delivered by the Rev. Charles Allen Dinsmore, D.D., of Yale University. The general topic was Religious Certitude in an Age of Science, and the lectures were:

1. The Influence of Science upon Religious Thought.
2. The Nature and Truth of Religion.
3. Religious Certitude and Beliefs.

The lectures for 1923 were delivered by Dean Roscoe Pound, Ph.D., LL.D., of the Law School of Harvard University. The general topic was Law and Morals, and the lectures were:

1. Law and Morals: The Historival View.
2. Law and Morals: The Analytical View.
3. Law and Morals: The Philosophical View

No lectures on this foundation were delivered in the year 1924. Dean Creighton, of Cornell University, the lecturer chosen, was prevented by ill health from coming to Chapel Hill and delivering the lectures. In the autumn of 1924 he died.

THE WEIL LECTURES

Howard Washington Odum, *Chairman*

During the years 1914-1915 an unendowed lectureship on American Citizenship was established by the University. The first incumbent was ex-President William Howard Taft, who lectured on "The Presidency: Powers, Duties, Obligations, and Responsibilities." Since that time this foundation, named the Weil Lectures on American Citizenship, has been permanently established through the generosity of the families of Mr. Sol Weil and Mr. Henry Weil, of Goldsboro, N. C.

The first incumbent on the Weil establishment (1915-1916) was Professor George Brinton McClellan, of Princeton University. The title of the series was American Citizenship, and the three lectures were:

1. The Nation.
2. The Law.
3. The Citizen.

The series for 1916-1917 was delivered by Mr. James A. Macdonald, editor of the *Toronto Globe*. The title of the series was The North American Idea, and the lectures were:

1. The North American Idea in the American Republic.
2. The North American Idea in the Canadian Dominion.
3. The North American Idea and America's Internationalism.

There was no series delivered in 1917-1918 owing to war conditions.

The series for 1918-1919 was delivered by Professor Jacob H. Hollander, of Johns Hopkins University. The title of the series was American Citizenship and Economic Welfare, and the lectures were:

1. The Weal of the Nation.
2. The Citizen as Producer.
3. The Citizen as Consumer.

The series for 1919-1920 was delivered by the Hon. Robert Goodwyn Rhett, ex-President of the Chamber of Commerce of the United States. The title of the series was American Citizenship, and the lectures were:

1. Social America.
2. Political America.
3. Industrial America.

The series for 1920-1921 was delivered by Professor William Bennett Munro, of Harvard University. The title of the series was Personality in Politics, and the lectures were:

1. Personality in City Politics—Some Notable American Mayors.
2. Personality in Politics—American Bosses of the Past Generation.
3. Personality in Reform Politics—Why Reformers so often Fail.

The series for 1921-1922 was delivered by Dr. John Huston Finley, Associate Editor, *New York Times*. The title of the series was National and Planetary Consciousness, and the lectures were:

1. Copernican America.
2. The Televictorian Age.
3. Planetary Consciousness.

The series for 1922-1923 was delivered by Fabian Franklin, Ph.D., LL.D., Publicist, New York City. The title of the series was The Rule of the People, and the lectures were:

1. The Doctrine of Divine Right.
2. The Rule of the People.
3. The Spirit of Liberty.

The series for 1923-1924 was delivered by Edward Alsworth Ross, Ph.D., LL.D., Professor of Sociology in the University of Wisconsin. The title of the series was Roads to Social Peace, and the lectures were:

1. Sectionalism and its Avoidance.
2. The Allaying of Town-Country Conflict.
3. Quenching Sectarian Strife.

THE SOUTHERN EXCHANGE LECTURES

James Finch Royster, *Chairman*

In 1914 an exchange lectureship was established by Vanderbilt University, the University of Virginia, the University of South Carolina, and the University of North Carolina. Under the terms of this lectureship each university will send a lecturer to and will be visited by a lecturer from one of the other universities participating in the lecture foundation. The purposes of this lectureship are: to promote scholarship, to present in concrete form recent advances in some special branch of learning, and to bring the institutions concerned into closer relationship through exchange of ideas in regard to all vital problems affecting a modern university.

The exchange lecturer to the University for 1923-1924 was Professor Andrew Charles Moore, Department of Biology, the University of South Carolina. Doctor Louis Round Wilson, Librarian and Kenan Professor of Library Administration, delivered the lectures at the University of Virginia.

UNIVERSITY SERMONS

Walter Dallam Toy, *Chairman*

Under the auspices of a Faculty Committee, University Sermons are delivered through the year in the College Chapel by prominent clergymen.

The sermons for 1923-1924 were delivered by:

Rev. A. E. Cory, D.D., Kinston, N. C.

Rev. David H. Scanlon, D.D., Durham, N. C.

Rt. Rev. Kirkman G. Finley, D.D., Diocese of Upper South Carolina.

Rev. J. H. Barnhardt, Greensboro, N. C.

Rev. David G. Lyon, D.D, Harvard University

UNIVERSITY ORGANIZATIONS

THE SENATE OF THE DIALECTIC LITERARY SOCIETY AND THE GENERAL ASSEMBLY OF THE PHILANTHROPIC LITERARY SOCIETY

The Dialectic and the Philanthropic Literary Societies were organized in 1795, the year of the opening of the University. Their existence has been inseparably linked with that of the University and they have shown remarkable power in developing character, as well as training the intellect. They offer facilities for practice in debate, oratory, and essay writing; and their members become familiar with parliamentary law and procedure.

In 1919 the Philanthropic Society reorganized itself after the plan of the General Assembly of North Carolina, and is now the General Assembly of the Philanthropic Literary Society, and conducts its meetings as a legislative assembly. Similarly in 1924 the Dialectic Society was reorganized upon the plan of a senate and as such conducts its meetings.

Each society owns a large, handsomely furnished hall, the walls of which are hung with oil portraits of illustrious members, including a President of the United States, Cabinet members, Governors, etc. Meetings are held by each society every Saturday evening of the college year, admission being confined to members. Public contests in debate between the two societies are conducted throughout the year, culminating in the annual Commencement debate. There is also held each year a system of intercollegiate debates and oratorical contests.

By immemorial custom, students from the eastern half of the State usually join the Philanthropic Society, while those from the western half join the Dialectic Society (Chapel Hill being regarded as the dividing line). Although membership in these societies is entirely optional, it is earnestly recommended by the Faculty as furnishing unusual opportunities not only for literary culture, but also for the development of self-control and the power to persuade and control others.

ELISHA MITCHELL SCIENTIFIC SOCIETY

Otto Stuhlman, Jr., Ph.D., *President.*
Henry Roland Totten, Ph.D., *Vice-President.*
James Munsie Bell, Ph.D., *Permanent Secretary.*
Joel Howard Swartz Ph.D., *Recording Secretary and Treasurer.*

William Chambers Coker, Ph.D.
Collier Cobb, D.Sc.,
James Munsie Bell, Ph.D.,
} *Editors of the Journal of the Elisha Mitchell Scientific Society.*

The Elisha Mitchell Scientific Society holds monthly meetings during the college year for the discussion of scientific subjects. A *Journal,* which is the official organ of the Society and of the North Carolina Academy of Science, is issued quarterly. The object of the society is to encourage scientific research and to record results of such work, especially those that pertain to the natural history of the State. The membership is at present restricted to the faculty and students of the University, and members of the staff of the Geological Survey.

At the monthly meetings, which are held on the second Tuesday of each month, excellent opportunities are afforded the students to get beyond the ordinary routine of the class-room by hearing readings and discussions of papers resulting from the research work in all the scientific departments of the University, talks by the alumni engaged in scientific research, and discussions of the important scientific discoveries. It gives the students and faculty a broader outlook and sympathy for scientific research in fields other than their own special one, a sympathy which is impossible in the smaller departmental societies.

The *Journal* is more than a bulletin of the scientific laboratories of the University. It contains original papers on scientific subjects by scientific men and research students throughout the Southern States. It also publishes the Proceedings of the Elisha Mitchell Scientific Society and the Proceedings of the North Carolina Academy of Science, as well as abstracts of papers on scientific subjects published elsewhere by members of the faculty and alumni of the University. It is now in its forty-first year. The volumes already issued contain more than six thousand pages. By the exchange of the *Journal* with more than three hundred scientific journals and periodicals many thousands of books and pamphlets have been collected, all of which are arranged in the University Library.

THE NORTH CAROLINA HISTORICAL SOCIETY

Joseph Gregoire deRoulhac Hamilton, Ph.D., *Permanent Secretary.*

The North Carolina Historical Society was founded in 1833 by Governor David L. Swain. When Governor Swain became President of the University, the Society was moved from Raleigh to Chapel Hill. Under his leadership it became the center of historical work in the State and the medium of many notable contributions to the history of the State. On March 22, 1875, through the activity of Kemp Plummer Battle, LL.D., the Society was chartered by an act of the General Assembly. The purpose of the Society is to collect, classify, and publish material illustrative of the history of the State. The Society possesses a valuable collection of books, pamphlets, manuscripts, newspaper files, coins, and other objects of historic interest. The educational aim of the Society is to create a love for historical study and to give training in scientific methods of historical investigation.

THE NORTH CAROLINA CLUB

Reed Kitchin, *President.*

George Kenneth Cavenaugh, *Vice-President.*

Edgar Tristram Thompson, *Secretary.*

Eugene Cunningham Branson, *Chairman of the Steering Committee.*

James Dougald Coxe, *Chairman of the Publicity Committee.*

Kenneth George Dacy, *Chairman of the Membership Committee.*

The North Carolina Club was organized September 25, 1914, for the purpose of providing an open forum to review, interpret, and discuss the economic, social, and civic problems of the State. It is an organization composed of students and faculty members who are bent upon accurate, intimate acquaintance with North Carolina. The Club meets for an hour upon fortnightly Monday evenings for the reading and discussion of a paper prepared by a member. Graduate and undergraduate college credit is given for creditable work provided the student registers in advance for Club credit. The studies of the North Carolina Club are given to the public in its annual Year Book.

THE PHILOLOGICAL CLUB

Thornton Shirley Graves, Ph.D., *President.*

Henry Dexter Learned, Ph.D., *Vice-President.*

John Coriden Lyons, M.A., *Secretary and Treasurer.*

The Philological Club meets on the first Tuesday evening of each month during the college year. Its membership consists of the faculty and advanced students in the language departments of the University. The object of the Club is to stimulate original investigation in language and literature and to afford an opportunity for the interchange of views on subjects relating to such work. At each meeting papers are read and discussed.

DER DEUTSCHE VEREIN

Albert Hazel Zealey, Jr., *President.*

Edward Scheidt, *Vice-President.*

Mabel Couch, *Secretary.*

James Bell Bullitt, Jr., *Treasurer.*

Ernst C. Metzenthin, Ph.D., *Director and Faculty Adviser.*

The Verein was established for the purpose of maintaining and stimulating among the officers and students of the University interest in German literature and music, life and customs, progress and achievements. The aim is to employ the German language as much as possible. The effort is made to provide students of German with an opportunity to perfect their pronunciation and to improve their control of the spoken language.

It is part of the purpose of the Verein to arrange from time to time for public lectures in German. Special stress is laid by the Director on dramatic activity, particularly on the staging and the interpretation of German ballads.

All officers and students of the University interested in German are eligible to membership. The Verein meets twice a month, every second and fourth Tuesday, at 7:00 P.M. in Gerrard Hall.

Mr. J. F. Jost, of the German Department, is the director of singing. Mr. H. S. VanLandingham, of the Romance Language Department, is in charge of the instrumental music.

LE CERCLE FRANCAIS

Robert White Linker, *President.*

Walter Warren Wilson, *Secretary and Treasurer.*

Robert Irving Little, Ph.D., *Adviser.*

Le Cercle Français holds weekly meetings at which topics of general interest pertaining to French literature and French life, manners, and customs are discussed. The French language is employed exclusively. It is the aim of the club to stimulate interest in the French language, to provide its members with an opportunity to hear idiomatic French spoken, and to use the language with more facility. All officers and students of the University interested in the study of French are eligible to membership.

EL CENTRO HISPANO

Albert Shapiro, Ph.D., *Adviser.*

The membership of El Centro Hispano consists of the instructors in Spanish, members of the community who speak the language, and students of the University who have shown distinction in courses in Spanish. The object of the club is to stimulate interest in the language, literature, and customs of Spain and Hispanic America, to provide its members with an opportunity to hear idiomatic Spanish spoken, and to use the language with more facility.

MUSIC CLUBS

The Music Clubs consist of the Glee Club, the Orchestra, and the Band. Each of these organizations is directed by a member of the Department of Music. The music used is of the highest type and the artistic standards are those of the best amateur organizations. They furnish music for numerous occasions on the campus, and each year they make concert tours in North Carolina and the neighboring states. Membership in these clubs is gained through competitive try-outs.

MUSICAL ACTIVITIES

A series of free Sunday afternoon concerts is provided by the department of music, the concerts coming on the first Sunday of each

month during the school year. These are given by members of the department, by students and student organizations, and by visiting artists.

A series of artist recitals is provided each year by the department of music, some of the world's greatest musicians being brought in this way to the campus. During the year 1924-1925 the following artists appeared in this series: Mischa Levitzki, May Peterson, The Letz Quartet, and Arthur Shatreck.

A community chorus open to all students and members of the community, and an A Capella Choir, chosen from the students and community, give several programs each season.

Wigue and Masque, a student musico-dramatic organization, produces each year an original musical comedy, with a caste made up entirely of men. The book and music for this production are written by students and selected in annual competition each fall, cash prizes being offered. Membership is by election from the castes of the productions. The caste is open to the entire student body through competitive tryouts.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

The University of North Carolina Branch

THOMAS BRYAN SMILEY, *President.*

HERBERT LEON COE, *Secretary.*

The aim of the Branch is to stimulate interest in modern problems in the various fields of electrical engineering, to provide a means for students to discuss in public various questions of a technical nature, and to give them an opportunity for practice in thinking on their feet. The Branch meets semi-monthly. The papers consist of original discussions and abstracts of papers presented before the regular Institute meetings. Membership in the Branch is open to all students who are interested in electrical engineering, and all enrolled members receive regular monthly Proceedings of the Institute.

AMERICAN SOCIETY OF CIVIL ENGINEERS

The William Cain Student Chapter

RAYMOND JOYCE ROSENBERGER, *President.*

JOHN THOMPSON BROWN, *Secretary.*

The purposes of the Chapter are to afford the student in Civil Engineering practice in the preparation and presentation of engineering papers, to give a working knowledge of parliamentary law, to develop the ability to speak extemporaneously, and to provide a contact between students, faculty, and visiting engineers.

The Chapter meets on Friday of each week, and six times during the year social meetings are held, to which are invited successful practicing engineers.

The Chapter receives all the publications of the Society and its members are accorded the privilege of attending any of the Society meetings.

Membership is open to all students of the Civil Engineering Department.

THE CAROLINA PLAYMAKERS

Frederick Henry Koch, A.M., *Director.*

Alvin Sawyer Wheeler, Ph.D., *Treasurer.*

George Vernon Denny, S.B., *Assistant Director and Manager.*

The Carolina Playmakers is the University dramatic organization.

Its purpose, as set down in the Charter, is: "First, to promote and encourage dramatic art, especially by the production and publishing of plays; Second, to serve as an experimental theatre for the development of plays truly representative of the traditions and present-day life of the people; Third, to extend its influences in the establishment of a native theatre in other communities." It it incorporated under the laws of the State of North Carolina as a non-stock corporation. The incorporators are President Chase, Professors Greenlaw, Koch, Henderson, Wheeler, Graham, and Coker, Messrs. Woollen and Denny, and Mrs. Paul Greene.

The *Carolina Folk-Plays* are written and produced in the University courses in Dramatic Composition and Production, members of the community of Chapel Hill—students, faculty, and townspeople—assisting. Those who contribute to the writing or producing of the plays constitute the membership of the organization. Any student may participate in any of the various departments of the work.

The Playmakers now have their own Theatre Building on the campus, fully equipped for all manner of experimentation and production.

Each year The Playmakers make three State tours of one week each, one each University quarter.

YOUNG MEN'S CHRISTIAN ASSOCIATION

BOARD OF TRUSTEES

W. D. Moss, *Chairman.*

D. D. Carroll, *Board Treasurer.*

H. W. Chase.
H. W. Odum.
A. H. Patterson.
F. F. Bradshaw.
L. J. Phipps.
W. H. Coltrane, *Ex officio.*
W. B. Pipkin, *Ex officio.*
H. F. Comer, *Ex officio.*

OFFICERS

HARRY F. COMER, *General Secretary.*
W. W. GWYNN, *Associate General Secretary.*
MISS WILLIE AMES, *Office Secretary.*
MISS MILDRED CHERRY, *Office Secretary.*
W. H. COLTRANE, *President.*
F. S. GRIFFIN, *Vice-President.*
EMMETT UNDERWOOD, *Recording Secretary.*
W. B. PIPKIN, *Treasurer.*

The Young Men's Christian Association is an organization of students which seeks by precept and example to encourage right and wholesome Christian living. In this spirit it endeavors to extend a helping and active influence to every sphere of campus activity, athletic, academic, social, and so on.

Not unaware of its essentially religious nature, it strives in every feasible way to make the religion of the campus very real and very genuine; and to uphold the Christian life as the ideal in conduct, thought, and temperament for every man. To those who are so inclined it offers unlimited opportunity for religious service. Through its support of rural Sunday-Schools, its Bible and Missions studies, its religious meetings, its Deputation Teams to High Schools, its Special Lectures and Institutes, its Evangelistic Campaign, and its personal associations it affords every man a medium of expression in service to the Christian cause.

For an additional number it offers opportunity for community and social service. Through its work for new students, the yearly handbook and directory, bureau of employment, exchange of lost and found articles, socials, receptions, and similar activities, many students are enabled to give to the community that measure of useful service which would otherwise remain wholly unexpressed.

The Association has very greatly enlarged its program and staff in the past three years, keeping step with progress in all other departments of the University, and with the increase in student enrollment. More than 300 different men are being used this year on various committees, and the work has extended itself very greatly into the life of the community. From the physical standpoint, all this expansion focuses upon the plan for a thoroughly modern building within the near future.

DEPARTMENT LEADERS

Bible Study—J. B. Fordham.
Boys' Work—H. D. Farrell, J. E. Calhoun, and H. D. Meyer.
Chapel—H. F. Comer.
Church Relations—Walter Crissman.
Deputation Work—A. M. Scarborough.
Evangelism and Recruiting—H. F. Comer.
Finances—W. B. Pipkin.
Freshman Friendship Council—L. E. Watt.
Freshman Letters—Stacy Smith.
Informtaion Bureau—Miss Willie Ames.
Life-Work and Vocational Guidance—T. A. Whitener.
Lost and Found Bureau—Miss Willie Ames.
Ministerial Band—R. M. Hardee.
Music Department—Thomas Campen.
Personal Work and Morning Watch—W. H. Coltrane.
Publications—George Stephens, Jr., Harold Lineberger.
Rural Work—H. T. Thompson, W. M. Cooper.
Self-Help Department—Zack Walters.
Social Department—Dick Thorpe.
Social Service Department—Byron Glenn.
Speakers Bureau—H. F. Comer.
Volunteer Band—Tom Quickel.
Weekly Religious Meetings—J. V. King.

THE ASSOCIATION OF THE ALUMNI

OFFICERS

W. N. Everett, '86, Raleigh, *President;* C. F. Harvey, '92, Kinston, *First Vice-President;* C. W. Tillett, Jr., '09, Charlotte, *Second Vice-President;* Daniel L. Grant, '21, Chapel Hill, *Secretary;* and M. B. Fowler, '18, Durham, *Treasurer.*

DIRECTORS

W. N. Everett, '86, Raleigh, *ex officio;* C. F. Harvey, '92, Kinston, *ex officio;* C. W. Tillett, Jr., '09, Charlotte, *ex officio;* Walter Murphy, '92, Salisbury, *ex officio;* A. B. Andrews, '93, Raleigh; Leslie Weil, '95, Goldsboro; R. H. Lewis, Jr., '98, Oxford; Samuel E. Shull, '00, Stroudsburg, Pa.; T. B. Higdon, '05, Atlanta, Ga.; F. E. Winslow, '09, Rocky Mount; John W. Umstead, '09, Durham; L. H. Hodges, '19, Spray; and Frank Coxe, '24, Asheville.

FINANCE COMMITTEE

John H. Andrews, '97, Raleigh; and Paul W. Schenck, '08, Greensboro.

EXECUTIVE COMMITTEE OF THE ALUMNI CLASS SECRETARIES' BUREAU

W. S. Bernard, '00; H. M. Wagstaff, '99; T. J. Wilson, Jr., '94; L. J. Phipps, '22, Daniel L. Grant, '21, Alumni Secretary, all of Chapel Hill.

The General Alumni Association of the University of North Carolina is composed of graduates of the University, former students who pursued courses leading to regular degrees, special students, and students of the summer law school. These are designated as active members. Honorary membership is accorded trustees and ex-trustees of the University, members and ex-members of the faculty, and officers of the University. It has more than 11,000 living members.

The objects of the Association are to promote the growth and influence of the University; to cultivate the bond of sympathy and mutual helpfulness between the University and its alumni; to make helpful the relation between alumni and students in local communities; to unite the alumni in the advancement of educational pursuits; and to maintain University ideals." This is a worthy and high goal, and a field of infinite expanse lies open in which the sons of the University may labor in realizing their self-set standard.

The officers of the Association are a president, two vice-presidents, a secretary, and a treasurer. The general management of the affairs

of the Association is entrusted to a Board of Directors consisting of thirteen members. This Board is made up of the President of the General Alumni Association, the First Vice-President, the Second Vice-President, the latest ex-President of the Association, and nine elected members. The President and Vice-Presidents of the Association and the other members of the board are elected by direct ballot—the officers for a term of one year, and the members of the Board for three-year terms. Three are elected each year, which provides a continuing body.

The Alumni Class Secretaries' Bureau exists for the purpose of seeing "that proper and uniform facts concerning every University alumnus and class are kept; that the reunions are organized in a way to secure the greatest attendance from the members, and an enjoyable and effective program; to stimulate the work of the secretaries by proper coöperation; to secure a greater unity of action and feeling in the various classes through regular informative communications, by letters, and through *The Alumni Review* and the regular publication of class histories, thereby fostering the work of the local and general associations." Its affairs are administered by an executive committee of five.

A proper coördination of the powers of the Alumni Class Secretaries' Bureau and the Board of Directors of the Association is now being worked out. The former directs the work that is being done through the medium of the class division of the entire group; and the latter that of the territorial division.

A deliberative body known as the General Assembly of the Alumni meets on Alumni Day of each Commencement for the consideration of Alumni affairs, and the installation of officers. It is composed of delegates from the local associations and the classes.

For information about the formation of local associations, the duties of class secretaries, and the general association address Daniel L. Grant, Alumni Secretary, Chapel Hill, N. C.

ALUMNI LOYALTY FUND

The Alumni Loyalty Fund, established in 1916, and its Council, granted enlarged powers by the University Trustees at their annual meeting in June, 1924, constitute the medium through which alumni may make gifts to the University.

The way in which the Fund shall be administered and the purposes for which it shall be used are set forth in the following resolutions adopted both by the General Alumni Association and the Board of Trustees at their respective meetings in June:

"That the Fund shall be administered by a Council consisting of the President of the University, the President and Secretary of the General Alumni Association, as members *ex officio,* and nine alumni, six of whom shall be appointed by the President of the University and three by the President of the General Alumni Association.

"The Fund shall be for the inauguration and stimulation of University activities, and the improvement and enrichment of its student life, with the consequent enhancement of the University's service to the State and Nation, and with the especial object of serving purposes other than those for which the State ordinarily makes sufficient appropriations."

With the Fund thus established and administered, $17,000 has been secured and invested to date. The class of 1924 has worked out a plan of endowment insurance of which the Fund is the beneficiary. Seven other classes holding their reunions in June have endorsed the plan and their members are now insuring for the benefit of the Fund.

The Fund is administered by a Council composed of: Leslie Weil, '95, *Chairman,* Louis R. Wilson, '99, *Executive Secretary,* J. A. Warren, *Treasurer,* H. W. Chase, W. N. Everett, '86, A. T. Allen, '97, J. G. Murphy, '01, A. W. Haywood, '04, W. T. Shore, '05, I. W. Rose, '06, K. S. Tanner, '11, H. G. Baity, '17, Daniel L. Grant, '21.

PART THREE—COURSES OF INSTRUCTION UNDERGRADUATE AND GRADUATE

In this section are listed and described all courses offered in the University except those in the professional schools of Law, Medicine, and Pharmacy. For courses in these schools see PART FIVE.

NOTES ON THE METHOD OF NUMBERING COURSES

Courses with a double number are completed in two quarters and in general credit will not be given until both quarters have been completed; for example, Chemistry 1-2. Certain of these courses meet only three times a week and together count as one course; for example, Philosophy 13-14. Courses which meet five or six times a week for two quarters carry a credit of two courses; for example; Economics 1-2.

Courses with three members require three quarters to complete. Those meeting five times a week carry a credit of three courses; for example, Chemistry 21-22-23. Those meeting only three times a week carry a credit of one and a half courses; for example, English 13-14-15.

Courses numbered 1-99 are undergraduate courses and may not be counted for graduate credit except by previous arrangement with the Head of the Department concerned and the Dean of the Graduate School.

Courses numbered 100 and above are of strictly graduate grade. An undergraduate student may not register for such a course except by special permission of the instructor in the course and the Head of the Department.

DEPARTMENT OF BOTANY

WILLIAM CHAMBERS COKER, Ph.D., *Kenan Professor of Botany.*

HENRY ROLAND TOTTEN, Ph.D., *Assistant Professor of Botany.*

JOHN NATHANIEL COUCH, Ph.D., *Instructor in Botany.*

Teaching Fellow in Botany, 1924-1925

JAMES VERNON HARVEY, B.A.

Assistants in Botany, 1924-1925

ALMA HOLLAND HENRY TRAVIS THOMPSON

EDWIN BRENTON SHAW

Courses for Undergraduates

1. GENERAL BOTANY. Freshman, Sophomore, Junior, and Senior elective.

An introduction to the structure and classification of plants. Lectures with laboratory and field work. *Six hours a week, fall or spring quarter. Laboratory fee, $4.00.* Credit, 1 course. Professors Coker and Totten, and Messrs. Couch, Harvey, Thompson, and Shaw.

2. STRUCTURE AND CLASSIFICATION OF SEED PLANTS. Sophomore, Junior, and Senior elective. Prerequisite, Botany 1. Structure and classification of seed plants with special attention to agricultural problems. *Five hours a week, spring quarter. Laboratory fee, $4.00.* Credit, 1 course. Professors Coker and Totten.

10-11. For description of courses 10-11, see School of Pharmacy.

Courses for Graduates and Advanced Undergraduates

4-5-6. SPECIAL MORPHOLOGY OF THE FUNGI. Prerequisite, Botany 1.

Special morphology of the fungi with special attention to plant diseases, the culture of the lower fungi, and the identification of mushrooms. Lectures with laboratory and field work. (Credit will be given for any quarter.) These courses may be continued under the same numbers for more than one year as the subject advances, credit being given for each repetition. *Five hours a week, fall, winter, and spring quarters. Laboratory fee, $4.00 a quarter.* Credit, 3 courses. Professors Coker and Totten and Mr. Couch.

8. HISTORY OF BOTANY. Prerequisite, two courses in botany.

Lectures, readings, and reports. This course may be continued for more than one year as the subject advances, credit being given for each repetition. *Three hours a week, winter quarter.* Credit, ½ course. Professor Coker.

Courses Primarily for Graduates

107-108-109. PLANT MORPHOLOGY.

Advanced work in the embryology and anatomy of plants. The student is required to collect and prepare material for the microscopic study of special problems. Theses. These courses may be continued under the same numbers for more than one year as the subject advances, credit being given for each repetition. *Five hours a week, fall, winter, and spring quarters. Laboratory fee, $4.00 a quarter.* Credit, 3 courses. Professor Coker.

110-111-112. GRADUATE RESEARCH.

Original work, with thesis, under the guidance of the instructor. This course may cover most of the work of the student for several years, credit being given each year in accordance with the work done. *Laboratory fee, $4.00 a quarter.* Professor Coker.

DEPARTMENT OF CHEMISTRY

James Munsie Bell, Ph.D., *Smith Professor of Chemistry.*
Francis Preston Venable, Ph.D., D.Sc., LL.D., *Kenan Professor of Chemistry.*
Alvin Sawyer Wheeler, Ph.D., *Professor of Organic Chemsitry.*
James Talmadge Dobbins, Ph.D., *Associate Professor of Chemistry.*
Frank Carl Vilbrandt, Ph.D., *Associate Professor of Industrial Chemistry.*
Floyd Harris Edminster, Ph.D., *Assistant Professor of Chemistry.*
Horace Downs Crockford, S.M., *Instructor in Chemistry.*
Earl DeWitt Jennings, S.M., *Instructor in Chemistry.*
Charles Roberts Harris, M.S., *Instructor in Chemistry.*

Teaching Fellows in Chemistry, 1924-1925

William Edward Giles, A.M. George Moseley Murphy, S.B.
Thomas Tipton Walker, B.S.

Assistants in Chemistry, 1924-1925

Lillie Fielding Poisson Cutlar, S.B.
Wilton Robinson Earle, S.M.
Ralph Milledge Byrd, B.S.
Richard Arthur Lineberry, B.S.
Boyce Galloway Carson, A.B.
Samuel Cornette Collins, M.S.
Vance Benton Rollins.
Wycliffe Commandeur Quinby.
William Marion Mebane.
Clarence Davis Schiffman.

Courses for Undergraduates

1-2. GENERAL DESCRIPTIVE CHEMISTRY.

An introduction to the study of the principal non-metallic and metallic elements and their compounds. Lectures with laboratory work. *Six hours a week, fall and winter or winter and spring quarters. Laboratory fee, $4.00 a quarter.* Credit, 2 courses. Professors Venable and Edminster, Miss Cutlar and Messrs. Giles, Walker, Byrd, Lineberry, Collins, Rollins, Quinby, Mebane, Brinkley, and Schiffman.

1-2E. GENERAL DESCRIPTIVE CHEMISTRY.

An introduction to the study of the principal non-metallic and metallic elements and their compounds with special emphasis on problems. Required of S.B. students. Lectures with laboratory work. *Six hours a week, fall and winter or winter and spring quarters. Laboratory fee, $4.00 a quarter.* Credit, 2 courses. Professors Bell and Edminster and Messrs. Earl, Giles, Walker, Byrd, Lineberry, Collins, Rollins, Quinby, Mebane, Brinkley, and Schiffman.

8. CHEMICAL EQUATIONS. Prerequisite, Chemistry 41-42.

A detailed study of the reactions of the elements and their compounds. Lectures and text-books. *Five hours a week, spring quarter.* Credit, 1 course. Professor Dobbins.

21-22-23. RESEARCH FOR SENIORS. Prerequisite, Chemistry 45-46-47, 61-62, 81-82.

Six hours a week, fall, winter, and spring quarters. Laboratory fee, $10.00 a quarter. Credit, 3 courses. Professors Bell, Venable, Wheeler, Dobbins, and Vilbrandt.

31. QUALITATIVE ANALYSIS. Prerequisite, Chemistry 1-2.

Laboratory work and lectures. *Five hours a week, fall or spring quarter. Laboratory fee, $10.00.* Credit, 1 course. Professor Dobbins, Messrs. Crockford, Murphy, and Carson.

35. ANALYTICAL CHEMISTRY. Prerequisite, Chemistry 1-2.

A course in analytical methods gravimetric and volumetric. Open only to students in the S.B. IV, Pre-medical, and Pharmacy courses. *Five hours a week. All quarters. Laboratory fee, $10.00.* Credit, 1 course. Professor Dobbins, Messrs. Crockford, Murphy, and Carson.

41. ELEMENTARY QUANTITATIVE ANALYSIS. Prerequisite, Chemistry 31.

Gravimetric Analysis. Laboratory work, lectures, and stoichiometric exercises. *Five hours a week, fall quarter. Laboratory fee, $10.00.* Credit, 1 course. Professor Dobbins and Mr. Jennings.

42. ELEMENTARY QUANTITATIVE ANALYSIS. Prerequisite, Chemistry 41.

Volumetric Analysis. Laboratory work, lectures, and stoichiometric exercises. *Five hours a week, winter quarter. Laboratory fee, $10.00.* Credit, 1 course. Professor Dobbins and Mr. Jennings.

47. OPTICAL METHODS OF ANALYSIS. Prerequisite, Chemistry 41-42.

Spectroscopic, Microscopic, and Microchemical Methods. *Five hours a week, spring quarter. Laboratory fee, $7.00.* Credit, 1 course. Professor Vilbrandt.

61. ORGANIC CHEMISTRY. Prerequisite, Chemistry 31 or 35.

The Aliphatic Series. Required of students in the S.B. I., S.B. IV, and Pre-medical courses. *Six hours a week, spring quarter. Laboratory fee, $7.00.* Credit, 1 course. Professor Wheeler and Mr. Harris.

Courses for Advanced Undergraduates and Graduates

11. INDUSTRIAL CHEMISTRY. Prerequisite, Chemistry 1-2, 41-42, 61-62.

The methods and economics of the inorganic chemical industries; lectures and laboratory work. *Five hours a week, fall quarter. Laboratory fee, $7.00.* Credit, 1 course. Professor Vilbrandt.

12. INDUSTRIAL CHEMISTRY. Prerequisite, Chemistry 11.

The methods and economics of the organic chemical industries; lectures and laboratory work. *Five hours a week, winter quarter. Laboratory fee, $7.00.* Credit, 1 course. Professor Vilbrandt.

13. CHEMISTRY OF FOODS. Prerequisite, Chemistry 1-2.
Digestion processes, and the composition, preservation, adulteration, and industrial production of foods. *Five hours a week, spring quarter.* Credit, 1 course. Professor Venable.

18. HISTORY OF CHEMISTRY. Prerequisite, Chemistry 61-62, 81-82.
History of Chemistry, with discussion of the development of chemical theories. *Three hours a week, spring quarter,* Credit, ½ course. Professor Venable.

45. TECHNICAL QUANTITATIVE ANALYSIS. Prerequisite, Chemistry 41-42.
Water, Oil, Fuel, and Gas Analysis, and Assaying. *Five hours a week, fall quarter. Laboratory fee, $7.00.* Credit, 1 course. Professor Vilbrandt.

46. TECHNICAL QUANTITATIVE ANALYSIS. Prerequisite, Chemistry 45.
Iron, Steel, Cotton Products, Fertilizers, and miscellaneous materials. *Five hours a week, winter quarter. Laboratory fee, $7.00.* Credit, 1 course. Professor Vilbrandt.

62. ORGANIC CHEMISTRY. Prerequisite, Chemistry 61.
The Carbocyclic and Heterocyclic Series. *Five hours a week, fall quarter. Laboratory fee, $7.00.* Credit, 1 course. Professor Wheeler and Mr. Harris.

63. IDENTIFICATION OF PURE ORGANIC COMPOUNDS. Prerequisite, Chemistry 62.
Lectures and laboratory. *Five hours a week, spring quarter. Laboratory fee, $7.00.* Credit, 1 course. Professor Vilbrandt.

64. CHEMISTRY OF DYESTUFFS. Prerequisite, Chemistry 62.
Lectures and laboratory. *Five hours a week, winter quarter. Laboratory fee, $7.00.* Credit, 1 course. Professor Wheeler and Mr. Harris.

81. PHYSICAL CHEMISTRY. Prerequisite, Chemistry 41-42.
Study of the properties of solids, liquids, and gases, and of their relation to chemical constitution. *Five hours a week, winter quarter. Laboratory fee, $4.00.* Credit, 1 course. Professor Bell and Mr. Crockford.

82. PHYSICAL CHEMISTRY. Prerequisite, Chemistry 81.
The theory of solutions. *Five hours a week, spring quarter. Laboratory fee, $4.00.* Credit, 1 course. Professor Bell and Mr. Crockford.

83. PHYSICAL CHEMISTRY. Prerequisite, Chemistry 81-82.
The methods of physicial chemistry as applied to industrial processes. Lectures and text-books. *Five hours a week, fall quarter.* Credit, 1 course. Professor Bell.

84. PHYSICAL CHEMISTRY. Prerequisite, Chemistry 81-82.
Electrochemistry. Lectures and text-books. *Five hours a week, spring quarter.* Credit, 1 course. Professor Bell.

Courses Primarily for Graduates

114-115-116. ADVANCED TECHNICAL CHEMISTRY. Prerequisite, Chemistry 11-12-13.

Seminar Course: readings and discussions of recent advances in Technical Chemistry. This course extends throughout the year. *Fall, winter, and spring quarters.* Credit, 1½ courses. Professor Vilbrandt.

117-118-119. RESEARCH IN INDUSTRIAL CHEMISTRY.

This course (or 127-128-129 or 147-148-149 or 177-178-179 or 197-198-199) is intended for applicants for advanced degrees. Laboratory work with frequent conference with the professor and reference to the literature relating to the subject of research. The subject of research must be assigned or approved by the professor. This course extends throughout the year. *Fall, winter, and spring quarters. Laboratory fee, $10.00 a quarter.* Credit, 3 courses. Professor Vilbrandt.

124-125-126. ADVANCED INORGANIC CHEMISTRY. Prerequisite, Chemistry 8.

Seminar Course: readings and discussions of recent advances in inorganic chemistry. This course extends throughout the year. *Fall, winter, and spring quarters.* Credit, 1½ courses. Professor Edminster.

127-128-129. RESEARCH IN INORGANIC CHEMISTRY.

The statements made in regard to course 117-118-119 apply also to this course. *Fall, winter, and spring quarters. Laboratory fee, $10.00 a quarter.* Credit, 3 courses. Professor Edminster.

144-145-146. ADVANCED ANALYTICAL CHEMISTRY. Prerequisite, Chemistry 45-46.

Seminar course: readings and discussions of recent advances in analytical chemistry. This course extends throughout the year. *Three hours a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Dobbins.

147-148-149. RESEARCH IN ANALYTICAL CHEMISTRY.

The statements made in regard to course 117-118-119 apply also to this course. *Fall, winter, and spring quarters. Laboratory fee, $10.00 a quarter.* Credit, 3 courses. Professor Dobbins.

174-175-176. ADVANCED ORGANIC CHEMISTRY. Prerequisite, Chemistry 63 and 64.

Seminar Course: readings and discussions of special chapters in organic chemistry. This course extends throughout the year. *Fall, winter, and spring quarter.* Credit, 1½ courses. Professor Wheeler.

177-178-179. RESEARCH IN ORGANIC CHEMISTRY.

The statements made in regard to course 117-118-119 apply also to this course. *Fall, winter, and spring quarters. Laboratory fee, $10.00 a quarter.* Credit, 3 courses. Professor Wheeler.

194-195-196. ADVANCED PHYSICAL CHEMISTRY. Prerequisite, Chemistry 83 and 84.

Seminar Course: readings and discussions of recent advances in physical chemistry. This course extends throughout the year. *Fall, winter, and spring quarters.* Credit 1½ courses. Professor Bell.

197-198-199. RESEARCH IN PHYSICAL CHEMISTRY.

The statements made in regard to course 117-118-119 apply also to this course. *Fall, winter, and spring quarters. Laboratory fee, $10.00 a quarter.* Credit, 3 courses. Professor Bell.

The Alembic Club meets monthly for the discussion of current literature. The current Journals, American, English, German, and French, both the purely scientific and the technical, are reviewed by the students and instructors. Attendance is expected of students in advanced courses.

DEPARTMENT OF CLASSICAL LANGUAGES AND LITERATURES

*GEORGE HOWE, Ph.D., *Professor of the Latin Language and Literature.*
WILLIAM STANLY BERNARD, A.M., *Professor of Greek.*
GUSTAVE ADOLPHUS HARRER, Ph.D., *Associate Professor of Latin.*
RUSKIN RAYMOND ROSBOROUGH, Ph.D., *Associate Professor of Classics.*
SHIPP GILLESPIE SANDERS, A.M., *Assistant Professor of Classics.*
JOHN MINOR GWYNN, A.B., *Instructor in Latin.*

GREEK

Courses for Undergraduates

1-2. BEGINNERS GREEK.

A course for students who have had no opportunity to study Greek. This course may be counted for credit toward the A.B. degree provided it is followed by Greek 3, 4, 5. It may be counted for credit as an elective by students who have selected for their language requirement two other foreign languages. *Five hours a week, fall and winter and winter and spring quarters.* Credit, 2 courses. Professors Bernard and Sanders.

3. INTERMEDIATE GREEK: HOMER. Freshman and Sophomore elective. Prerequisite, Greek 1-2.

Homer's Iliad, selections. *Five hours a week, fall quarter.* Credit, 1 course. Professor Bernard.

4. INTERMEDIATE GREEK: GREEK PROSE. Freshman and Sophomore elective. Prerequisite, Greek 1-2 and 3.

A course continuing the purpose of Greek 3, to increase the student's proficiency in reading the language while at the same time leading him into the best literature. *Five hours a week, winter quarter.* Credit, 1 course. Professor Bernard.

5. PLATO. Sophomore and Junior elective. Prerequisite, Greek 3-4.

Apology and Crito with selections from the other Socratic dialogues. The course is designed for a more critical study of Greek prose and the thought movements which culminated in the Socratic teaching. *Five hours a week, spring quarter.* Credit, 1 course. Professor Bernard.

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* Absent on leave, 1924-1925.

6. DRAMA. Sophomore and Junior elective. Prerequisite, Greek 3-4.

Two tragedies and one comedy will be studied. This course may be substituted for the fifth course of the foreign language requirement with the approval of the Professor of Greek. *Five hours a week, one quarter, on application.* Credit, 1 course. Professor Bernard.

7. THE GREEK NEW TESTAMENT. Sophomore and Junior elective. Prerequisite, Greek 3-4.

St. Mark's Gospel, with selections from the other Gospels. This course is both cultural and vocational. It is designed for those students who wish a more intimate knowledge of the original Bible and also especially for divinity and Y. M. C. A. students. With the approval of the Professor of Greek it may be substituted for the fifth course of the foreign language requirement. *Five hours a week, one quarter, on application.* Credit, 1 course. Professor Bernard.

8. HOMER: ADVANCED COURSE. Sophomore, Junior, and Senior elective. Prerequisite, Greek 3-4.

Rapid reading of the entire Odyssey with Homeric Study. *Five hours a week, one quarter, on application.* Credit, 1 course. Professor Sanders.

(For additional courses see under Courses Requiring No Knowledge of the Greek or the Latin Language, pages 102-104, and under Comparative Literature, pages 105-106.)

Courses for Graduates and Advanced Undergraduates

21-22. GREEK DRAMA. Prerequisite, Greek 6.

An extended reading and study of the Greek drama with lectures on the origin, history, and structure of the drama. *Five hours a week, two quarters.* Credit, 2 courses. Professor Bernard.

43. THE GREEK NEW TESTAMENT. Prerequisite, Greek 7.

The Acts of the Apostles, study of grammar and diction, comparison with English versions; the Gospels, with selections from the Epistles; the principles of textual criticism, sources and history of the Greek text and the versions. *Five hours a week, one quarter, on application.* Credit, 1 course. Professor Bernard.

NOTE: Greek 14, 36, and 53 may also be taken as Graduate courses. In such cases the scope of the work in them will be considerably expanded and concentrated on some special phase of the subject required.

Courses Primarily for Graduates

101-102-103. GREEK SEMINAR.

This course is devoted to the study in detail of particular authors or periods in Greek literature, the subject matter varying from year to year. It calls for wide reading in the Greek authors selected and in the critical literature concerning them, with oral and written reports. Lectures and conferences. Professor Bernard.

(For additional courses see under Courses Requiring No Knowledge of the Greek or the Latin Language, pages 102-104, and under Comparative Literature, pages 105-106.)

LATIN

Courses for Undergraduates

1. SELECTIONS FROM CICERO'S ESSAYS. Freshman elective.

The course comprises a review of grammatical principles, vocabulary exercises, and the reading of *De Senectute* and parts of *De Amicitia. Five hours a week, fall, winter, and spring quarters.* Credit, 1 course. Professors Howe, Harrer, Rosborough, and Sanders and Mr. Gwynn.

2. LATIN POETRY. Freshman elective. Prerequisite, Latin 1.

The course comprises the reading of the *Phormio* of Terence and of selected *Odes* of Horace. Emphasis is put on content and literary form. *Five hours a week, fall, winter, and spring quarters.* Credit, 1 course. Professors Howe, Harrer, Rosborough, and Sanders and Mr. Gwynn.

3. POST-AUGUSTAN PROSE. Sophomore elective. Prerequisite, Latin 1-2.

The course is concerned with the translating of Tacitus' *Agricola* and of selections from Pliny's *Letters;* but emphasis is also placed on the literary values of the works read, and on the political and social conditions of the period. *Five hours a week, fall, winter, and spring quarters.* Credit, 1 course. Professors Howe, Harrer, Rosborough, and Sanders and Mr. Gwynn.

4. ROMAN LAW. Prerequisite, Latin 1-3. The course is a Sophomore requirement of A.B.-LL.B. students, and is open to other students who have satisfied the prerequisite.

The course deals with the general principles and the historical development of Roman law. The work consists of the translation of selected passages in the legal literature, readings, and lectures. *Five hours a week, winter quarter.* Credit, 1 course. Professor Harrer.

5. ROMAN SATIRE. Sophomore, Junior, and Senior elective. Prerequisite, Latin 1-3.

Readings from Horace, Petronius, Persius, Juvenal; occasional lectures. This course alternates with course 6. (Not offered in 1925-1926.) *Five hours a week, fall quarter.* Credit, 1 course. Professor Sanders.

6. CICERO'S LETTERS. Sophomore, Junior, and Senior elective. Prerequisite, Latin 1-3.

The reading of selected letters and discussions of the history and politics of the time. This course alternates with course 5. *Five hours a week, fall quarter.* Credit, 1 course. Professor Sanders.

11. TEACHER'S COURSE. Prerequisite, Latin 1-3.

The course is concerned with pronunciation, forms, syntax, prosody, the art of translating, methods of instruction. *Five hours a week, fall quarter.* Credit, 1 course. Professor Howe (or Mr. Gwynn).

Courses for Graduates and Advanced Undergraduates

12. ROMAN HISTORICAL LITERATURE. Prerequisite, Latin 1-3.

A study of the structure, purposes, and methods of the most significant works. Translation and reading in English from the literature; reports; lectures. The course alternates with course 13. *Five hours a week, fall quarter.* Credit, 1 course. Professor Harrer.

13. ROMAN DRAMATIC LITERATURE. Prerequisite, Latin 1-3.

A study of the development of Latin comedy and tragedy; reading of selected plays. The course alternates with course 12. (Not offered in 1925-1926.) *Five hours a week, fall quarter.* Credit, 1 course. Professor Harrer (or Professor Rosborough).

19. CAESAR. Prerequisite, Latin 1-3.

The political career and literary works of Caesar will be studied, and selections from the Gallic and Civil Wars will be translated. *Five hours a week, winter quarter.* Credit, 1 course. Professor Harrer.

20. CICERO'S WORKS. Prerequisite, Latin 1-3.

A study of Cicero, as statesman and advocate. Selected letters, as well as a number of the orations, will be read. *Five hours a week, spring quarter.* Credit, 1 course. Professor Harrer.

30. MEDIAEVAL LATIN. Prerequisite, Latin 1-3, or the equivalent.

The course is principally concerned with translating from the Latin works of leading authors of the Middle Ages, and with some study of the chief differences between Classical and Mediaeval Latin. *Five hours a week, winter quarter.* Credit, 1 course. Professor Harrer.

31. MEDIAEVAL LATIN. Prerequisite, Latin 30.

A continuation of Latin 30, with extended readings from the Latin Literature of the period, and study of the importance of the leading writers in the history of literature. *Five hours a week, spring quarter.* Credit, 1 course. Professor Harrer.

Courses Primarily for Graduates

101-102-103. LATIN SEMINAR.

The course is devoted to the study in detail of particular authors or periods in Roman literature, the subject matter varying from year to year. It involves wide reading in the Latin authors and in the critical literature concerning them, with oral and written reports by the student. Lectures and conferences. For the year 1925-1926: fall quarter, Cicero (Professor Howe); winter quarter, Roman Elegiac Poets (Professor Howe); spring quarter, Tacitus (Professor Harrer). *Five hours a week, fall, winter, and spring quarters.* Credit, 3 courses. Professors Howe and Harrer.

104. LATIN EPIGRAPHY.

The aim of the course is to acquire facility in the deciphering and translating of inscriptions, to study in detail a selection of significant inscriptions and their values in the field of Roman studies. *Five hours a week, fall quarter.* Credit, 1 course. Professor Harrer.

105. LATIN PALEOGRAPHY.

The aim of the course is a study of the more important scripts, practice in decipherment, and the methods of textual criticism. *Five hours a week, one quarter, on application.* Credit, 1 course. Professor Harrer.

Courses Requiring no Knowledge of the Greek or the Latin Language

The following courses in classical literature and civilization are especially designed to supply the necessary foundation for those who, without a reading knowledge of the ancient languages, wish a broader culture, or plan to spe-

cialize in modern literature, history, art, etc. When properly approved, they will be allowed to count as part of the major requirement in other departments. They may be taken also to satisfy the requirement of a minor in literature. (See also under Comparative Literature, page 104.)

14. GREEK LITERATURE. Junior and Senior elective. Open to Sophomores by permission.

A study of the masterpieces of Greek literature in English translation, with special reference to the contributions of Greek civilization to modern thought. *Five hours a week, fall quarter.* Credit, 1 course. Professor Bernard. (The course is the same as Comparative Literature 14.)

15. LATIN LITERATURE. Junior and Senior elective. Open to Sophomores by permission.

A study of the masterpieces of Latin literature in English translation, with special reference to the contribution of Roman civilization to modern thought. *Five hours a week, winter quarter.* Credit, 1 course. Professor Howe. (The course is the same as Comparative Literature 15.)

36. GREEK DRAMATIC LITERATURE. Junior and Senior elective.

A course designed to embrace the origin, development, technique, and content of Greek Drama, with emphasis on tragedy. An interpretation of Greek life and thought as contributing to world progress. *Five hours a week, winter quarter.* Credit, 1 course. Professor Bernard. (The course is the same as Comparative Literature 36.)

51. THE LATIN EPIC. Junior, Senior, and Graduate elective.

The history of the Latin Epic; detailed study of the *Æneid. Five hours a week, spring quarter.* Credit, 1 course. Professor Howe. (The course is the same as Comparative Literature 51.)

52. THE POETRY OF OVID. Junior, Senior and Graduate elective.

The reading in English of the complete works of Ovid, and special critical study of the *Metamorphoses* and of Roman elegy. *Five hours a week, fall quarter.* Credit, 1 course. Professor Howe. (The course is the same as Comparative Literature 52.)

53. PLATO IN ENGLISH TRANSLATION. Junior, Senior, and Graduate elective.

A course designed to lead the student into Platonic philosophy and literary criticism. *Five hours a week, spring quarter.* Credit, 1 course. Professor Bernard. (The course is the same as Comparative Literature 53.)

16. GREEK AND ROMAN ART. Junior and Senior elective.

The course will deal with architecture, sculpture, vases, etc., of Greece and Rome, with a preliminary survey of Egyptian and Mesopotamian art. Special attention will be paid to the architecture and sculpture of the classical period. Illustrated lectures, discussions, and required readings. *Five hours a week.* Credit, 1 course. Professor Bernard.

17. GREEK LIFE. Junior and Senior elective.
The course will be practically a survey of Hellenic civilization. The house, dress, education, social life, mythology, religion, theatre, games, etc., will be studied, especial attention being given to life in Athens in the Fifth Century B.C. Illustrated lectures, discussions, and required readings. *Five hours a week.* Credit, 1 course. Professor Bernard.

18. ROMAN CIVILIZATION. Junior and Senior elective.
The course deals with the public institutions, the political and social conditions, and with the private life of the Romans, their buildings, living conditions, amusements, manners and customs, and religion. *Five hours a week, spring quarter.* Credit, 1 course. Professor Harrer.

DEPARTMENT OF COMPARATIVE LITERATURE

EDWIN GREENLAW, Ph.D., *Kenan Professor of English,* Chairman.
WALTER DALLAM TOY, M.A., *Professor of the Germanic Languages and Literatures.*
*GEORGE HOWE, Ph.D., *Professor of the Latin Language and Literature.*
WILLIAM MORTON DEY, Ph.D., *Professor of the Romance Languages and Literatures.*
FREDERICK HENRY KOCH, A.M., *Professor of Dramatic Literature.*
NORMAN FORESTER, A.M., *Professor of English.*
WILLIAM STANLEY BERNARD, A.M., *Professor of Greek.*
HOWARD RUSSELL HUSE, Ph.B., *Associate Professor of Romance Languages.*

The province of courses in this department is indicated by the following aims: 1. To acquaint students with significant periods in the development of human culture through the medium of literature considered without regard to national or linguistic bounds. 2. To study, through translations, the chief literary masterpieces other than English, ancient and modern. 3. To gain some acquaintance with the special traits of various nationalities as revealed in their literatures, thus supplementing the study of history and of the various languages, and contributing to a better understanding of international relationships.

Students majoring in Comparative Literature must fulfill the following requirements:

(a) Three courses chosen from the following list, of which course 14 must be one: 14, 15, 16, 31, 32.

(b) Three additional courses in the department.

(c) Two Junior-Senior electives in one of the language and literature departments: Greek, Latin, English, German, Romance.

* Absent on leave, 1924-1925.

Knowledge of the original language of the literature concerned is an advantage but is not required in undergraduate courses unless specified in the description of the course. A reading knowledge of at least one language other than English is, however, required in all cases. Graduate courses require a knowledge of the language of the literature studied in the course.

Candidates for honors in Language and Literature will be required to complete with distinction a major in Comparative Literature, with an essay involving the study of at least one literature other than English, and with a reading knowledge of that language.

Courses for Undergraduates

14. GREEK LITERATURE. Junior and Senior elective. Open to Sophomores by permission.

A study of masterpieces of Greek literature in English translation, with special reference to the contribution of Greek civilization to modern thought. *Five hours a week, fall quarter.* Credit, 1 course. Professor Bernard.

15. LATIN LITERATURE. Junior and Senior elective. Open to Sophomores by permission.

A study of masterpieces of Latin literature in English translation, with special reference to the contribution of Roman civilization to modern thought. *Five hours a week, winter quarter.* Credit, 1 course. Professor Howe.

16. EUROPEAN LITERATURE IN THE MEDIAEVAL PERIOD. Junior and Senior elective.

A study of the mediaeval mind as reflected in masterpieces of literature, of the value of these masterpieces as elements in modern culture, and of certain modern versions of mediaeval story. Material read is selected from the early heroic poetry, such as *Beowulf,* the *Nibelungenlied,* and the sagas; metrical romance, such as the *Song of Roland* and the Arthurian romances in France and England; Malory; Celtic romance; and the poetry of Dante. (Given in 1926-1927 and in alternate years.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Greenlaw.

31. GERMAN LITERATURE SINCE 1700. Junior and Senior elective.

Lectures will be given on the development of German life and literature from 750 A.D. to the special period embraced in this course, and during the quarter there will be lectures on later literary movements and on the authors whose works are read. The reading will be taken from the works of Klopstock, Lessing, Goethe, Schiller, the Storm and Stress writers, the Romantic School, and a selection of 19th century writers after 1832. In some cases the selection of authors to be read will depend upon the possibility of obtaining reliable English translations. *Five hours a week, winter quarter.* Credit, 1 course. Professor Toy.

32. FRENCH LITERATURE SINCE 1600. Junior and Senior elective.

A survey of French literature since 1600. Lectures on the history of the literature from the Renaissance to the present time, with special

reference to the classical period and romanticism. Assigned reading in the history of the literature and the masterpieces of the last three centuries, so far as they can be procured in English translation. *Five hours a week, spring quarter.* Credit, 1 course. Professor Dey.

36. GREEK DRAMATIC LITERATURE. Junior and Senior elective. A course designed to embrace the origin, development, technique, and content of the entire Greek Drama, with emphasis on the tragedy as one interpretation of Greek life and thought as a contribution to world progress. *Five hours a week, winter quarter.* Credit, 1 course. Professor Bernard.

Courses for Graduates and Advanced Undergraduates

51. THE LATIN EPIC. Junior, Senior, and Graduate elective. The history of Latin Epic; detailed study of the *Aeneid. Five hours a week, spring quarter.* Credit, 1 course. Professor Howe.

52. THE POETRY OF OVID. Junior, Senior, and Graduate elective. The reading in English of Ovid's complete works with detailed study of the *Metamorphoses. Five hours a week, fall quarter.* Credit, 1 course. Professor Howe.

53. PLATO. Junior, Senior, and Graduate elective. A course designed to lead the student into Platonic philosophy and literary criticism. *Five hours a week, spring quarter.* Credit, 1 course. Professor Bernard.

56. DANTE. Junior, Senior, and Graduate elective. The *Vita Nuova* and the *Divine Comedy;* the precursors of Dante, and the poets of the *dolce stil nuovo.* Special studies of Dante's political and social philosophy, with particular emphasis on Dante as a poet and as a guide. *Five hours a week, fall quarter.* Credit, 1 course. Professor Huse.

61. THE RENAISSANCE. Junior, Senior, and Graduate elective. An introduction to the literature of the Renaissance in Europe, with some attention to the history of learning in that period. (Given in 1925-1926 and in alternate years.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Greenlaw.

68. COMPARATIVE DRAMA. Junior, Senior, and Graduate elective. A general survey of the drama and the theatre from Aeschylus to Ibsen. The development of dramatic literature is studied through representative plays of the leading European dramatists. *Five hours a week, winter quarter.* Credit, 1 course. Professor Koch.

71. THE MODERN DRAMA. Junior, Senior, and Graduate elective. A study of representative plays of recent times, beginning with Ibsen. Special attention is given to the function of the drama in interpreting modern thought and changing social conditions. (Given in 1926-1927 and in alternate years.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Koch.

78. LITERARY CRITICISM. Junior, Senior, and Graduate elective. Through an analysis of the literary theories of Aristotle, Dryden, Johnson, Coleridge, Ste.-Beuve, Henry James, Anatole France, Croce, etc., this course aims to render clear the principles that have animated classical, pseudo-classical, romantic, and realistic literature. It includes a consideration of modern scientific method in relation to the ultimate purposes of scholarship. *Five hours a week, spring quarter.* Professor Foerster.

90. THESIS COURSE.
Open only to candidates for honor. Credit, 1 course.

Courses Primarily for Graduates

117. ROMANTICISM IN GERMANY AND ENGLAND.
This course traces the development of German romantic thought and art, and their influence in England. Attention is centered upon the problem of the native and foreign elements in Coleridge, Wordsworth, and the young Carlyle. *Five hours a week, fall quarter.* Credit, 1 course. Professor Foerster.

118. ROMANTICISM IN THE UNITED STATES.
This course studies the influence of British and Continental romanticism upon American writers, and the modification of the romantic tradition by the conditions of our life. Attention is centered upon a single topic of personality, varied from year to year. *Five hours a week, winter quarter.* Credit, 1 course. Professor Foerster.

DEPARTMENT OF ECONOMICS AND COMMERCE

*DUDLEY DEWITT CARROLL, M.A., *Professor of Economics.*

CLAUDIUS TEMPLE MURCHISON, Ph.D., *Professor of Business Economics.*

THOMAS LATIMER KIBLER, Ph.D., *Professor of Economics and Transportation.*

ERLE EWART PEACOCK, M.B.A., *Professor of Accounting.*

WALTER JEFFRIES MATHERLY, M.A., *Professor of Business Administration.*

ERICH WALTER ZIMMERMAN, Ph.D., *Associate Professor of Commerce and Resources.*

EDMUND BROWN, JR., Ph.D., *Associate Professor of Marketing.*

WILLARD EARL ATKINS, A.M., J.D., *Associate Professor of Economics and Business Law.*

JOHN BROOKS WOOSLEY, M.A., *Associate Professor of Economics.*

CORYDON PERRY SPRUILL, JR., A.B., B.Litt., *Assistant Professor of Economics.*

MALCOLM DEAN TAYLOR, A.B., M.B.A., *Assistant Professor of Sales Relations.*

JOSEPH MERRITT LEAR, M.A., *Assistant Professor of Insurance.*

THOMAS COMPTON PAKENHAM, D.Phil., *Assistant Professor of Economics.*

MOSES KILLEBREW HEARNE, S.B., *Instructor in Accounting and Economics.*

Teaching Fellows in Economics and Commerce, 1924-1925

GEORGE EDGAR NEWBY, JR., A.B. CHARLES GORDON REEVES, A.B.

* Absent on leave, on the Kenan Foundation, 1924-1925.

ECONOMICS

1-2. GENERAL ECONOMICS.

This course is planned to give a general understanding of the organization of our economic life and the fundamental principles underlying it. An analysis is made of consumption, production, and distribution; of the elements which determine value and price, with a brief introduction to money, banking and credit, monopoly, business combinations, transportation, labor problems, and economic reform. *Five hours a week, fall and winter, or winter and spring quarters.* Credit, 2 courses. Professors Carroll, Kibler, Brown, Atkins, Woosley, Spruill, Pakenham, and Mr. Hearne.

1-2-3E. GENERAL ECONOMICS.

For students in Engineering only. This course covers the same subjects as Economics 1-2. *Three hours a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor J. M. Lear.

5. ECONOMIC HISTORY.

A survey of the steps by which economic activities have evolved from primitive beginnings into the complicated capitalistic economy of today. Special emphasis on the development of the wage system, the Industrial Revolution, the expansion of markets, the ebb and flow of industrial activity, the relation of industrial development to political policy, as they have manifested themselves in England and the United States. *Five hours a week, fall or spring quarters.* Credit, 1 course. Professor Spruill.

10-11. MONEY AND BANKING. Prerequisite, Economics 1-2.

A general study of the principles, functions, and forms of money, credit, and banking; analyses of the current money, credit, and banking problems. *Five hours a week, fall and winter or winter and spring quarters.* Credit, 2 courses. Professor Murchison.

12. BUSINESS CYCLES. Prerequisite, Economics 1-2.

A study of the alternating periods of depression and prosperity. The underlying causes of panics and crises. Fluctuations in prices, trade volume, and physical production. *Five hours a week, winter quarter.* Credit, 1 course. Professor Murchison.

13-14. PUBLIC FINANCE. Prerequisite, Economics 1-2.

A general study of the principles which are involved in public revenues and expenditures, and in the relation of organized society to the economic life of its members; a special study of taxation—local, State, and National. *Five hours a week, winter and spring quarters.* Credit, 2 courses. Professor Spruill.

15. TRANSPORTATION. Prerequisite, Economics 1-2.

A general study, from the historical and critical points of view, of railways transportation in such representative countries as Great Britain, France, Italy, Germany, and the United States; with some consideration of passenger and freight traffic and rates, and the State's relation to railways. *Five hours a week, fall quarter.* Credit, 1 course. Professor Kibler.

20. RISK AND RISK-BEARING. Prerequisite, Economics 1-2.

A study of the risk element in modern industry together with the measures which have been devised to meet it. This course should precede the study of insurance. *Five hours a week, winter quarter.* Credit, 1 course. Professor Atkins.

24. PRINCIPLES OF MARKETING. Prerequisite, Economics 1-2.

This course sets forth the principles underlying general marketing practice. The assignments relate to marketing facilities and services (such as transportation, warehousing, grading, financing, assembling, and distributing), marketing agencies and organizations, organized exchanges and future trading, and certain problems of competition and price policy. *Five hours a week, fall quarter.* Credit, 1 course. Professor Brown.

26. INTERNATIONAL TRADE: THEORY AND POLICIES. Prerequisites, Commerce A, Economics 1-2.

In this course international trade is viewed from the standpoint of the political economist, emphasizing the social aspects.
Part I. Theory of international trade with special references to payment balance and foreign exchange.

Part II. Historical study of the past, and critical analysis of the present, foreign commerce of the United States and principal commercial rivals; a survey of our markets and sources of supply.

Part III. Analysis and criticism of the international trade policies of the United States and leading commercial nations. *Five hours a week, fall quarter.* Credit, 1 course. Professor Zimmerman.

30. LABOR PROBLEMS. Prerequisite, Economics 1-2.

A study of labor as a factor in the industrial process; of the wage system and employment problems; of immigration and poverty; of labor organizations, strikes, lockouts, arbitration, factory legislation, and industrial education. *Five hours a week, spring quarter.* Credit, 1 course. Professor Atkins.

40. THEORIES OF ECONOMIC REFORM. Prerequisite, Economics 1-2.

A critical analysis of the leading proposals for reform in the present economic system, including Socialism, Bolshevism, Single Tax, and Industrial Democracy. *Five hours a week, fall or spring quarter.* Credit, 1 course. Professor Carroll.

100abc. ADVANCED ECONOMIC THEORY. Prerequisite, Economics 1-2.

A survey of economic theory from the standpoint of the evolution of modern industrial society. The three courses will not only include a review of the works of the leading economic writers, but will also summarize the principal physical, psychic, and social factors that have shaped economic theory and economic institutions. *Five hours a week, fall and winter quarters, three hours a week, spring quarter.* Credit, 2½ courses. Professor Kibler.

106abc. ECONOMICS SEMINAR. Prerequisites, Economics 1-2, 10-11.

A general introduction to methods of advanced study. Some phase of economic activity is selected for consideration in harmony with the interests of the members of the seminar. Methods of work and content receive equal emphasis. *Three hours a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Murchison, Chairman.

COMMERCE

(Courses in Commerce count for credit toward the degree S.B. in Commerce only.)

A. RESOURCES AND INDUSTRIES. Prerequisite, Geology 5.

A geographical, technological, and economic study of resources and commodities together with a brief outline of the most important processes of basic industries.

The classroom work—lecture, recitation, and laboratory—is supplemented by weekly moving pictures. Excursions to representative industrial establishments. *Five hours a week, fall, winter, and spring quarters. Laboratory fee, $3.50.* Credit, 1 course. Professor Zimmerman.

1. ACCOUNTING: PRINCIPLES. Prerequisite or corequisites, Economics 1-2, Commerce 10.

Lectures with laboratory work. Study of the theory of debit and credit, record making, organization of accounts, and presentation of financial and profit and loss statements. Laboratory exercises in accounting problems and technique. *Five hours a week, fall, winter, and spring quarters. Laboratory fee, $3.00.* Credit, 1 course. Professor Peacock and Mr. Hearne.

2-a. ACCOUNTING: PRINCIPLES. Prerequisite, Commerce 1.

Lectures with laboratory work. An approach to accounting problems from the business manager's point of view. It consists of a thorough study of the organization of the accounting department of a business and its relation to the other departments, accounting systems, construction and analysis of accounting statements. The principles of valuation of assets, depreciation, and bonds are also covered, and a general survey made of such fields as cost, municipal, and railway accounting. *Five hours a week, winter and spring quarters. Laboratory fee, $3.00.* Credit, 1 course. Mr. Hearne.

2-b. ACCOUNTING: PRINCIPLES. Prerequisite, Commerce 1.

Lectures with laboratory work. An advanced course in the principles of accounting for the professional accountant, emphasis being put on the practical application of the principles. Vouchers and voucher systems, the depreciation and interest problems, principles of valuation, construction and analysis of accounting statements, corporation and partnership organization and problems are covered. Principles and systems are illustrated with practice sets in the laboratory. *Five hours a week, winter quarter. Laboratory fee, $3.00.* Credit, 1 course. Professor Peacock.

3. ADVANCED ACCOUNTING. Prerequisite, Commerce 1-2.

Lectures with laboratory work. Study of accounting problems and forms for special types of business concerns. Accounting for the organization and liquidation of co-partnerships and corporations, for combinations and consolidations, for trustees and receiverships, branch houses, municipalities, and foreign exchange. *Five hours a week, spring quarter. Laboratory fee, $3.00.* Credit, 1 course. Professor Peacock.

4. ACCOUNTING PRACTICE. Prerequisite, Commerce 1 and prerequisite or corequisite, Commerce 2.

A laboratory course. Bookkeeping systems and records for the various industries prevalent in North Carolina are studied and practice

sets for each are prepared. A tentative list will include tobacco manufacturing, furniture manufacturing, cotton goods manufacturing, automobile sale agencies and garages, banks in small cities, and municipalities. *Six hours a week, winter quarter. Laboratory fee, $3.00.* Credit, 1 course. Professor Peacock.

5. COST ACCOUNTING. Prerequisite, Commerce 1-2.

Lectures with laboratory work. Methods for collection of data relative to prime costs and a careful analysis of various methods of burden distribution. Application of principles will be made in the laboratory by means of budgets for cost accounting in different classes of enterprise. *Five hours a week, fall quarter. Laboratory fee, $3.00.* Credit, 1 course. Professor Peacock.

6. AUDITING. Prerequisite, Commerce 1-2.

Lectures and problems. Kinds of audits, system of accounts, methods of conducting audits, and problems in auditing. *Five hours a week, winter quarter. Laboratory fee, $3.00.* Credit, 1 course. Professor Peacock.

7. INCOME TAX PROCEDURE. Prerequisite, Commerce 1-2.

This course consists of a thorough study of both the Federal and State income tax laws and the problems that arise in the making of the various returns. The preparation of the tax returns and claims for refund and abatement will be undertaken as laboratory exercises. *Three hours a week, spring quarter. Laboratory fee, $2.00.* Credit, ½ course. Professor Peacock.

8. C. P. A. PROBLEMS. Prerequisites, Commerce 1, 2, 3, 5, 6.

This course deals with the questions and problems given by the different states and the American Institute in their C. P. A. examinations. Typical problems are solved, and solutions prepared by the leading accountants of the country are studied. (Alternates with Commerce 9 and is given in 1925-1926.) *Three hours a week, spring quarter.* Credit, ½ course. Professor Peacock.

9. MUNICIPAL ACCOUNTING. Prerequisites, Commerce 1, 2, 3.

Lectures with laboratory work. A study of the organization of a municipality; various accounting records; methods of collecting data recorded in the books of original entry; the preparation of financial statements, budgets, and budgetary control. A survey will also be made of the system prepared by the Bureau of Municipal Research. Laboratory work will consist of a practice set and an investigation of the systems in use by the municipalities in this vicinity. (Alternates with Commerce 8 and is given in 1926-1927.) *Five hours a week, spring quarter. Laboratory fee, $2.50.* Credit, 1 course. Professor Peacock.

10. BUSINESS ORGANIZATION. Prerequisite, Economics 1-2.

The forms of business organization with emphasis on the corporation. The external relations of a business organization and the internal coördination of the factors in production with a view to the establishment of effective control and definite responsibility for results. Special attention will be directed to the various functions to be performed, such as production, finance, personnel, marketing, risk-taking, and records and standards. *Five hours a week, fall or spring quarter.* Credit, 1 course. Professor Matherly.

11. INDUSTRIAL MANAGEMENT. Prerequisite, Economics 1-2.

This course covers the problems involved in the construction, equipment, and administration of a manufacturing enterprise. The unit of study is the factory. The subject matter is treated under four heads: the underlying principles of production, the agencies of production, the control of production operations, and the establishment of production standards. *Five hours a week, winter quarter.* Credit, 1 course. Professor Matherly.

12. CORPORATION FINANCE. Prerequisite, Economics 1-2.

Methods of financing business enterprises, the principles governing the issuance and proportion of the various classes of securities issued by a corporation; the conditions which lead to the issuance of particular forms of securities, the organization of subsidiaries, methods of financing mergers, combinations and consolidations; amortization of debts; reorganizations; intercorporate relations. The preparation of securities with relation to the market. *Five hours a week, spring quarter.* Credit, 1 course. Professor Woosley.

10-11-12. BUSINESS ADMINISTRATION. For Students in the School of Engineering. Prerequisite, Economics 1-2.

The elements of business organization with emphasis on the corporation, its nature, its promotion, its financing, and its operation. Internal organization with special reference to methods of control, managerial accounting, cost analysis, financing of current operations, valuation and methods of appraisal, depreciation, sinking funds, and the interpretation of financial statements. The economics of locating and managing industrial plants, the handling of the labor factor through specialized personnel administration, and the relations existing between consumers and producers. Open only to engineering students. *Three hours a week, fall, winter, and spring quarters.* Professor Matherly.

14. PERSONNEL MANAGEMENT. Prerequisites, Economics 1-2, Commerce 10.

A scientific study of the methods of hiring and handling personnel in the various lines of industry. The supply, selection, training, promotion, transfer, and discharge of employees; the computation and significance of labor turnover; housing, educational and recreational facilities; the functions of a personnel department with reference to efficiency and the maintenance of good will between employees and employers. *Five hours a week, spring quarter.* Credit, 1 course. Professor Matherly.

16. MANAGEMENT THEORIES AND PRACTICES. Prerequisites, Economics 1-2, Commerce 10. Open only to selected seniors and graduate students.

A critical examination of the economic, social, and ethical aspects of modern business administration. Current theories of organization and management will be taken up and subjected to careful scientific analysis. Practices will be compared with theories. An attempt will be made to formulate the underlying principles upon which the administration of modern industrial enterprise rests. *Three hours a week, winter quarter.* Credit, ½ course. Professor Matherly.

20. SALESMANSHIP AND PURCHASING. Prerequisites or corequisites, Economics 1-2, Psychology 1-2.

The course in salesmanship will include a careful analysis of the psychology of selling; the qualifications of a good salesman, and their development; the relative value of suggestion, persuasion, and argument in securing decision; the scientific analysis of a sale—the preapproach, the approach, the demonstration, and the consummation. Typical problems in selling at retail and wholesale and in marketing various types of specialties are presented.

The latter half of the quarter will be devoted to a study of Purchasing. The material will be presented in the form of problems which representative business concerns have actually faced. The topics thus treated will include the organization of a Purchasing Department, the duties of a Purchasing Agent, considerations involved in the purchase of raw material, buying from hand to mouth, hedging, turn over, the question of whether or not speculation in raw materials is justifiable, the legal side of contracts, the ethics of purchasing, the problem of cancellations, over-buying, and the relation between the purchasing policy, the turnover, and profits. *Five hours a week, fall and spring quarters. Laboratory fee, $1.00.* Credit, 1 course. Professor Taylor.

21. SALES MANAGEMENT. Prerequisite, Commerce 20.

This course follows the course in Salesmanship but goes beyond and considers the organization and operation of a sales department. Some of the subjects studied are: the functions of a sales manager; analysis of the goods, the market, and the prospective customers; the planning and management of selling campaigns; sales equipment, records, tests, and relative costs; selecting, training, organizing, supervising, and compensating salesmen. *Five hours a week, winter quarter. Laboratory fee, $1.00.* Credit, 1 course. Professor Taylor.

22. ADVERTISING. Prerequisites or corequisites, Economics 1-2, Psychology 1-2.

The course consists of a study of the psychological basis of advertising, the types of advertising and their adaptation to the various lines of business, the relative value of the various advertising media, and mechanism of an advertisement, and methods of testing effectiveness. Attention is also given to the work of planning and executing an advertising campaign and checking up the results. Practical problems are a part of the course. *Five hours a week, fall or spring quarter. Laboratory fee, $1.00.* Credit, 1 course. Professor Taylor.

23. MERCHANDISING. Prerequisite, Economics 1-2.

The retailer is the last step in the system of merchandise distribution. His problems are many and because of his position in the field of business a study of his organization, functions, and methods is important. The preparation and maintenance of stock records, the organization and management of sales forces, and the determination and execution of credit and price policies are subjects which are taken up and discussed. Problems form an important part of this course. *Five hours a week, winter quarter. Laboratory fee, $1.00.* Credit, 1 course. Professor Taylor.

24. CREDITS AND COLLECTIONS. Prerequisite, Economics 1-2.

A study of the position of credit in modern industry and its relation to the extension of trade is combined with an analysis of the elements which enter into the determination of credit risks. Consideration is also given to the methods by which credit is extended, the standardization of the forms of credit, and the means by which collections may be effected. Some attention is given to the work of collection departments and agencies, and adjustment methods. *Three hours a week, spring quarter.* Credit, ½ course. Professor Taylor.

26. RESEARCH COURSE IN SALES RELATIONS. Prerequisites, Commerce 20, 22.

Critical studies in selected phases of the selling process; laboratory and seminar methods. The particular problems considered will depend on the interests of the class. *Three hours a week, winter quarter.* Credit, ½ course. Professor Taylor.

30. TYPES OF BANKING. Prerequisite, Economics 10-11.

A comparative study of specialized types of banking institutions,—their organization, methods, functions, and relationship to the financial organization of society in general. The course will include trust companies, investment banks, commercial paper houses, commercial discount companies, savings banks, and the various classes of agricultural credit banks. *Five hours a week, spring quarter.* Credit, 1 course. Professor Murchison.

31. BANKING PRACTICE. Prerequisite, Economics 10-11.

Organization and management of a commercial bank. Duties and responsibilities of different departments. Bank accounting. Handling of credit instruments, checks, drafts, acceptances, bills of exchange. Critical examination of present methods and standards. *Three hours a week, spring quarter.* Credit, ½ course. Professor Murchison.

32. BUSINESS STATISTICS. Prerequisite, Economics 1-2.

Collection, classification, and presentation of business data. Construction of graphs and diagrams. Study of index numbers. How to make a survey of a given business unit, and of business conditions generally. Each student is required to work out a problem involving simple research methods. *Five hours a week, spring quarter.* Credit, 1 course. Professor Brown.

35. FOREIGN EXCHANGE. Prerequisites, Economics 1-2, 10-11.

A study of international banking operations; the credit instruments used in financing trade between nations; the forces determining rates of exchange. *Three hours a week, spring quarter.* Credit, ½ course. Professor Murchison.

36. INVESTMENTS. Prerequisite, Economics 1-2.

A study of the various forms of investments with reference to their suitability for the different types of investors; the money market, its nature and the financial factors which influence the price movements of securities; elements of sound investment and methods of computing net earnings, amortization, rights, and convertibles. The aim will be to train the student to act efficiently in a financial capacity either as a borrower or lender, an investor or trustee, or as fiscal agent of a corporation. *Five hours a week, winter quarter.* Credit, 1 course. Professors Woosley and Pakenham.

38. INSURANCE: LIFE.

A study of the principles and technique of life insurance, including disability, accident, and group insurance. Some attention will also be given to the investment operations of insurance companies. *Five hours a week, winter quarter.* Credit, 1 course. Professor Lear.

39. INSURANCE: FIRE, MARINE, BOND, AND TITLE.

In this course, an effort is made to consider as far as possible the wide range which the insurance function covers and the probable trend of its future development. The topics noted in the title of the course are studied and as many others as time will permit. *Five hours a week, spring quarter.* Credit, 1 course. Professor Lear.

41. MARKETING PRACTICE. Prerequisites, Economics 1-2-24.

This course covers essential technique in the marketing of specific commodities as well as a development of the principles followed in practice. Each of the more important commodities or groups of commodities is discussed from the marketing standpoint, and the technical marketing operations on organized exchanges and in various types of business organizations are examined. *Five hours a week, winter quarter.* Credit, 1 course. Professor Brown.

42. MARKETING PROBLEMS. Prerequisites, Commerce A, 41.

A seminar course for students who have done satisfactory work in the general course in Marketing. Each member of the class will be required to make an extensive survey of, and prepare a written report on, a marketing problem of current interest. *Three hours a week, spring quarter.* Credit, ½ course. Professor Brown.

46. FOREIGN TRADE PRACTICE. Prerequisite, Economics 26.

This course treats of foreign trade as a business profession and serves to prepare for entrance into the field; emphasis throughout is on practical problems.

Part I. The organization of Foreign Trade: Export departments, middlemen and their functions; coöperation.

Part II. Methods: Direct versus indirect exporting; export campaigns; sales policies.

Part III. Foreign Market Analysis.

Part IV. Paper work and technical procedure in exporting and importing, including foreign trade financing. *Five hours a week, winter quarter.* Credit, 1 course. Professor Zimmerman.

47. COMMERCIAL COMMODITIES. Prerequisites, Commerce A, Economics 1-2.

A study of world commerce in staple commodities such as wheat, cotton, wool, rubber, coal, tobacco, etc., and some selected specialties. Foreign market analysis with special reference to adjacent countries, South America, and the Orient. Foreign Trade Principles and Policies should precede this course. (Alternates with Commerce 51 and is given in 1926-1927.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Zimmerman.

50. TRAFFIC PROBLEMS. Prerequisite, Economics 15.

A study of current technical problems in the field of transportation and traffic management. *Three hours a week, winter quarter.* Credit, ½ course. Professor Kibler.

51. OCEAN SHIPPING. Prerequisite, Economics 1-2.

A study of the elements of water transportation, trade routes, ports and terminal facilities, vessel types, ship operation and management, ocean freight service and rates, marine insurance. The problems of our merchant marine and national policies affecting it are also discussed. (Alternates with Commerce 47 and is given in 1925-1926.) *Three hours a week, spring quarter.* Credit, ½ course. Professor Zimmerman.

60-61. BUSINESS LAW. Prerequisite, Economics 1-2.

The aim of the course is to give the student an understanding of the main principles of law which govern in the daily conduct of business. The topics discussed are: contracts, agencies, negotiable instruments, sales, bailments, corporations, partnerships, and bankruptcy. *Five hours a week, fall and winter quarters.* Credit, 2 courses. Professor Atkins.

62. GOVERNMENT AND BUSINESS. Prerequisites, Economics 1-2, Government 1-2, Commerce 60-61.

A study of the evolution of governmental policy towards business, with a critical examination of current governmental regulation and supervision of industry and trade. Some attention is given to the services which modern governments undertake to render to the business life of their citizens and the agencies developed for this purpose. *Three hours a week, spring quarter.* Credit, ½ course. Professor Atkins.

106abc. COMMERCE SEMINAR.

A general introduction to methods of advanced study. Some phase of business activity is selected for consideration in harmony with the interests of the members of the seminar. Methods of work and content receive about equal emphasis. *Fall, winter, and spring quarters.* Credit, 1½ courses. Professor Murchison, Chairman.

141. SEMINAR.

Individual research in a special field under direction of a member of the faculty.

DEPARTMENT OF EDUCATION

MARCUS CICERO STEPHENS NOBLE, *Professor of Pedagogy.*

NATHAN WILSON WALKER, A.B., Ed.M., *Professor of Secondary Education.*

EDGAR WALLACE KNIGHT, Ph.D., *Professor of Rural Education.*

MARION REX TRABUE, Ph.D., *Professor of Educational Administration.*

ESEK RAY MOSHER, A.M., Ed.D., *Professor of Education.*

ARTHUR MELVILLE JORDAN, Ph.D., *Professor of Educational Psychology.*

PAUL WASHINGTON TERRY, Ph.D., *Professor of Education.*

BENJAMIN ALONZO STEVENS, M.A., *Assistant Professor of Education.*

Teaching Fellow in Education, 1924-1925

WILLIAM OSCAR HAMPTON, B.S. in Ed.

EDUCATION

1. FUNDAMENTALS OF EDUCATION: AN INTRODUCTION TO EDUCATIONAL PSYCHOLOGY. Sophomore course. Required of all students in the School of Education who do not elect Psychology 1-2.

Education is viewed in this course as a series of changes in individual pupils. The elementary principles of educational psychology will be illustrated and studied briefly through assigned readings, experiments, and discussions. *Five hours a week, fall, winter, or spring quarter.* Credit, 1 course. Professor Jordan.

4. THE THEORY AND PRACTICE OF EDUCATION. Junior and Senior elective.

A study of the theory and practice of education from the viewpoint of both the teacher and the citizen; the selection of the material of instruction; the development and arrangement of the curriculum for the grammar schools and the high schools. Lectures, textbooks, and assigned readings. *Five hours a week, winter quarter.* Credit, 1 course. Professor Noble.

20. EDUCATIONAL PSYCHOLOGY. Prerequisite, Education 1 or Psychology 1-2. Required of all students in the School of Education.

To consider critically different topics, such as original nature of man, heredity versus environment, kinds of learning and factors influencing learning, individual differences, mental hygiene, mental measurement is the purpose of this course. Texts and lectures. *Five hours a week, fall or spring quarter.* Credit, 1 course. Professor Jordan.

26. PUBLIC SCHOOL EDUCATION IN THE SOUTH. Junior and Senior elective.

This course gives a historical survey of public school education in the Southern States with especial attention to its development in organization, administration, and supervision since 1876. Present-day questions in rural education are studied in the light of their historical development, and attention is given to the educational reorganizations needed for the proper solution of the new rural life problems. Textbook, lectures, investigations, and reports. *Five hours a week, fall or spring quarter.* Credit, 1 course. Professor Knight.

29. HISTORY OF EDUCATION IN NORTH CAROLINA. For Graduates and Advanced Undergraduates.

The purpose and development of education in North Carolina as seen in the work of public, private, charity, and church schools. A comparative study of public education in North Carolina and other selected typical states of the American Union. Lectures, discussions, and assigned readings. *Five hours a week, fall or spring quarter.* Credit, 1 course. Professor Noble.

31. RURAL SCHOOL ORGANIZATION AND ADMINISTRATION. Junior and Senior elective.

A course planned to meet the needs of students preparing to become rural school teachers, principals, supervisors, and superintendents. It gives consideration to the organization, administration, and super-

vision of rural school education in the United States, with especial emphasis on the present conditions in the South. The county as the unit of administration and support, federal aid and a national program for rural educational work, the application of the principles, agencies, and methods of supervision to the rural school will be studied. Textbooks, lectures, special investigations, and reports. *Five hours a week, winter quarter.* Credit, 1 course. Professor Knight.

36. HISTORIC FOUNDATIONS OF MODERN EDUCATION. Junior and Senior elective.

This course traces the development of some of the more important educational problems of modern times as they have been affected by the social and political facts of history, by the contributions of the leading educational theorists, and by institutional practice. It deals with the growth of national systems of education and especially with the extension of popular education in the United States. Textbooks, lectures, investigations, and reports. *Five hours a week, winter quarter.* Credit, 1 course. Professor Knight.

37. PUBLIC EDUCATION IN THE UNITED STATES. Junior and Senior elective.

The purpose of this course is to present the evolution of the educational practices and institutions of the United States. The elementary school, the secondary school, and the institutions of higher learning will be traced through: (*a*) The period of transplanting of European institutions; (*b*) the period of modifications of institutional life to meet new conditions; and (*c*) the period of development of an educational system of free common schools, high schools, state universities, and technical schools, in harmony with the political and social ideals and institutions of America. Textbooks, lectures, investigations, and reports. *Five hours a week, fall quarter.* Credit, 1 course. Professor Knight.

41. INTRODUCTORY COURSE IN SCHOOL ADMINISTRATION. Junior and Senior elective.

This course will consider some of the important problems of school administration, especially as these problems bear on the success of the teacher's work. Students without teaching experience, or teachers without a knowlede of administrative problems, should not register for the more specialized courses in the field of administration until after completing this course. Textbooks, observations, and discussions. *Five hours a week, winter quarter.* Credit, 1 course. Professor Trabue and Mr. Hampton.

42. THE ELEMENTARY SCHOOL PRINCIPALSHIP. For Graduates and Advanced Undergraduates.

This course considers the duties, qualifications, and activities of the principal of an elementary school. Textbook, assigned readings, and special reports. *Five hours a week.* Credit, 1 course. Professor Trabue.

43. ELEMENTS OF STATISTICAL METHODS. Prerequisite, Education 1 or Psychology 1-2.

The first meetings in this course will consider various methods of collecting data for educational, psychological, social, and economic investigations. The interpretation of data by graphic and mathematical devices, will be taught chiefly by examples. Numbering, tabulation, the calculation of averages and variabilities, the transmuta-

tion of measures, and simple correlations will be included. Students will be required to plan experiments and statistical investigations for the solution of problems in their own fields of interest. Readings, demonstrations, problems, reports, and critical discussion. *Five hours a week, winter quarter.* Credit, 1 course. Professor Trabue and Mr. Hampton.

46. CLASSROOM MANAGEMENT. For Graduates and Advanced Undergraduates.

A course for prospective teachers on the organization and direction of activities in the classroom as distinguished from the administration of an entire school. Class routine, lesson planning, conduct of the recitation, and extra-curricular activities will be included. Textbook, special readings, observations, and reports. *Five hours a week, winter quarter.* Credit, 1 course. Professor Trabue and Mr. Hampton.

48ab. (*a*) THE CLASSIFICATION OF PUPILS. (*b*) THE SUPERVISION OF INSTRUCTION. For Graduates and Advanced Undergraduates.

These two courses are given as one in the year 1924-1925, although they will probably be given separately, each as a full course, in later sessions. Various methods and devices for securing a satisfactory classification of pupils and for improving instruction offered by teachers will be studied and discussed. A good course in educational measurements is prerequisite. Textbooks, investigations, reports, and discussions. *Five hours a week, spring quarter.* Credit, 1 course. Professor Trabue and Mr. Hampton.

51. PRINCIPLES OF SECONDARY EDUCATION. Required of all students in the School of Education. Junior and Senior elective. Prerequisites, Education 1 (or Psychology 1-2) and Education 20.

A study of the American high school, its evolution, organization, administration, functions, and problems. Special emphasis will be laid on the public high school in North Carolina. This course is designed especially to meet the needs of those students who are looking towards principalships in small high schools. Textbooks, lectures, assigned readings. *The Principles of Secondary Education* by Inglis will be used as the basis of this course. *Five hours a week, fall or winter quarter.* Credit, 1 course. Professor Walker.

52. GENERAL METHODS IN SECONDARY EDUCATION. Required of all students in the School of Education. Junior and Senior elective. Prerequisites, Education 1 (or Psychology 1-2) and Education 20.

This course deals with a general survey of the nature of the secondary school pupil and of the nature of the subject matter taught in secondary schools; a study of the laws of learning which underlie and determine the conduct of the recitation and the management of the class. Considerable attention is given to the types of learning involved in the different high school subjects and economical methods of instruction. The first half of this course is based upon Colvin's *Introduction to High School Teaching;* the second half, upon Parker's *Methods of Teaching in High Schools. Five hours a week, winter or spring quarter.* Credit, 1 course. Professor Walker.

55. SOCIAL POLICY AND EDUCATION. For Graduates and Advanced Undergraduates.

Fundamental problems in the social and ethical theory of education. Lectures, prescribed readings, essays, and reports. This course deals with problems of social progress from the standpoint of education, attempts to define a social policy for education, and discusses the vital educational issues involved in that policy. *Five hours a week, fall quarter.* Credit, 1 course. Professor Walker.

56. SUPERVISION AND MEASUREMENTS IN SECONDARY EDUCATION. Senior or Graduate. Prerequisite, Education 1 or Psychology 1-2.

Standard tests for measuring the results of secondary school instruction will be determined and discussed. An effort will be made to give students some familiarity with the methods and scales. *Five hours a week, fall quarter.* Professor Trabue and Mr. Hampton.

62. TESTS AND MEASUREMENTS IN ELEMENTARY EDUCATION. Senior or Graduate. Prerequisite, Education 1 or Psychology 1-2.

Methods of measuring and improving the results of instruction in the elementary school. As much use as possible will be made of actual measured results. *Five hours a week.* Credit, 1 course. Professor Jordan.

64. MENTAL MEASUREMENTS. Junior and Senior elective. Prerequisite, Education 1 or Psychology 1-2.

A study of mental tests both individual and group. The origin of the tests will be first considered, followed by a comparative study of the various types of group and individual tests. There will be ample opportunity offered for the actual administration of the tests and the interpretation of the results. *Five hours a week, winter quarter.* Credit, 1 course. Professor Jordan.

101. PROBLEMS IN SECONDARY EDUCATION. Graduate.

This course is intended for advanced students and is primarily a course in investigation. To be admitted to it, a student must have pursued other courses in secondary education. Students who have not taken Education 51 may be admitted only with special permission of the instructor. At the beginning of the course each student is required to select some one problem for special investigation. The problem for investigation may be chosen by the student but must be subject to the approval of the instructor both as to field and method. A thesis will be required of each student. Throughout the year regular class discussions will be held on various problems in secondary education and assigned readings will be required. *Two hours a week, fall, winter, and spring quarters.* Credit, ½, 1, or 1½ courses. Professor Walker.

103. PROBLEMS IN EDUCATIONAL ADMINISTRATION. Graduate. Prerequisites, Education 40 and 41, or their equivalent.

A graduate course offering opportunity for intensive study and research on selected problems in the field of educational administration. The problems will be selected by the class each year, making it possible for the student to take this course more than once. *Two hours a week, fall, winter, and spring quarters.* Credit, ½, 1, or 1½ courses. Professor Trabue.

104. PROBLEMS IN EDUCATIONAL MEASUREMENTS. Graduate. Prerequisite, Education 62 or 56.

Students who wish to specialize in educational measurements may take this course more than once, if desired, since the problems considered will differ from year to year. *Two hours a week, fall, winter, and spring quarters.* Credit, ½, 1, or 1½ courses. Professor Trabue.

110. PROBLEMS IN EDUCATIONAL PSYCHOLOGY. Graduate. Prerequisites, Education 1 or Psychology 1-2, and preferably one other course in Educational Psychology.

A graduate course treating intensively of the fundamental facts of educational psychology. This course is designed for those who intend to major in educational psychology and for all those who wish a thorough grounding in the psychological principles of Education. *Two hours a week, fall, winter, and spring quarters.* Credit, ½, 1, or 1½ courses. Professor Jordan.

126. FOUNDATIONS OF EDUCATION IN THE SOUTH. Graduate.

This is a research course in modern educational practices and institutions and is open only to those advanced students who have had Education 26, or Education 36, or the equivalent. Various educational agencies will be studied through investigations, reports, and conferences. *Two hours a week, fall, winter, and spring quarters.* Credit, 1 course. Professor Knight.

140. SEMINAR IN EDUCATION. Thesis Course.

This is a course of strictly graduate grade in which there will be taken up such work as is necessary for each student in connection with the writing of his degree thesis. It is intended for those students whose graduate major is in Education, but students whose thesis topics are closely related to Education are invited to attend and to take part in the discussions. The class will meet for two hours each week throughout the year. *Two hours a week.* Professors in The School of Education.

DEPARTMENT OF ENGINEERING

GUSTAVE MAURICE BRAUNE, C.E., *Professor of Civil Engineering.*
PARKER HAYWARD DAGGETT, S.B., *Professor of Electrical Engineering.*
JOHN EMERY LEAR, E. E., *Professor of Electrical Engineering.*
THOMAS FELIX HICKERSON, A.M., S.B., *Professor of Civil Engineering.*
THORNDIKE SAVILLE, A.B., C.E., *Professor of Hydraulic and Sanitary Engineering.*
*HAROLD FREDERICK JANDA, C.E., *Associate Professor of Highway Engineering.*
ELMER GEORGE HOEFER, M.E., *Associate Professor of Mechanical Engineering.*
PHILIP KINGSLAND SCHUYLER, B.S., *Acting Associate Professor of Highway Engineering.*
GEORGE WALLACE SMITH, S.B., *Assistant Professor of Engineering.*
RALPH MCCOY TRIMBLE, C.E., *Instructor in Engineering.*
PAUL MILTON GRAY, S.B., *Instructor in Electrical Engineering.*
JOHN NELSON COFFEY, *Instructor in Engineering.*

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* Absent on leave, 1924-1925.

Teaching Fellow in Civil Engineering, 1924-1925

JOHN BEE PADGETT, B.S.

Except as noted below (courses 1-2 Drawing and Engineering 37C, 38C, 50abc, and 70C) courses in Engineering are open to students in Engineering only.

Courses for Undergraduates

1abc. MECHANICAL DRAWING AND DESCRIPTIVE GEOMETRY. Lettering and use of drawing instruments. Descriptive Geometry, covering fundamental problems of the point, line, and plane and their application to problems of the intersection and development of surfaces. Problems in isometric and perspective projections. *Six hours a week, fall, winter, and spring quarters.* Professor Smith.

1-2. DRAWING. For students in the Schools of Commerce and Applied Science only.
This course is designed to help the student interpret and read working drawings. It embodies lettering, the use of drawing instruments, the elementary principles of mechanical drawing, and the reading of typical completed drawings. *Four hours a week, fall and winter quarters.* Credit, $^2/_3$ course. Professor Smith.

2s. MECHANISM AND ENGINEERING DRAWING. Prerequisite, Engineering 1abc.
For Electrical and Mechanical Engineers.
The relative motions of machine parts, including a study of linkages, cams, gears, belts, gear trains, and other mechanism. Coördinated with this study, the principles of mechanics and empirical methods are applied to the design of machine elements. *Twelve hours a week, summer term.* Professors Hoefer and Janda.
For Civil Engineers.
A course consisting of topographical drawing, mapping of boundary surveys, graphical determination of areas, plans and profiles of road survey, and other drawings of a similar nature. This course is in connection and parallel with Engineering 23s. *Six hours a week, summer term.* Professors Hoefer and Janda.

3abc. ELEMENTARY MECHANICS.
The basic principles of statics and an elementary course in strength of materials, covering conditions of equilibrium, force and funicular polygons, center of gravity, friction, beams, and jointed structures. This course correlates with first year Mathematics and Drawing. *Three hours a week, fall, winter, and spring quarters.* Professors Braune, Hickerson, Janda, and Mr. Trimble.

4abc. MECHANICS. Prerequisites, Engineering 3abc and Mathematics 1-2-3E.
An elementary course in statics, kinematics, and kinetics. This course correlates with Sophomore Mathematics. *Two hours a week, fall, winter, and spring quarters.* Professors Hickerson and Saville.

5abc. APPLIED MECHANICS. Prerequisites, Engineering 3abc and Mathematics 4-5-6E.
A course in mechanics comprising statics, kinematics, and kinetics. The fundamental principles governing the strength and stiffness of beams, columns, truss members, shafting, and various kinds of riveted work. *Four hours a week, fall, winter, and spring quarters.* Professor Hickerson.

6abc. MATERIALS OF ENGINEERING.

Constitution, physical properties, and tests of the important materials used in engineering construction, such as wood, cement, stone, iron, steel, etc., metullurgy of iron and steel and the more important alloys. *Four hours a week, fall, winter, and spring quarters. Laboratory fee, $2.00 a quarter.* Professor Janda and Mr. Trimble.

7c. INSPECTION TRIPS.

The freshmen students are given an opportunity to become familiar with various types of engineering works by weekly inspection trips during the spring quarter. One afternoon a week is scheduled for inspection trips under the supervision of an engineering instructor, and a second afternoon is devoted to writing a report of the trip under the supervision of the English instructor. *Six hours a week, spring quarter.* Professor Janda, Chairman, and Members of the Engineering staff.

11abc. CEMENT LABORATORY.

Laboratory tests of cement and concrete and analyses of concrete materials. *Three hours a week, fall, winter, and spring quarters. Laboratory fee, $2.00 for winter and spring quarters.* Professor Janda.

14abc. STRUCTURES. Prerequisite, Engineering 5abc.

Graphical and analytical determination of stresses occurring in engineering structures, such as roofs, bridges, retaining walls, etc. The design of simple structures in steel and timber. *Three hours a week, fall, winter, and spring quarters.* Professor Braune.

15abc. ENGINEERING DESIGN.

Application of principles in course 14 to specific problems in the designs of roofs, bridges, retaining walls, water towers, and other structures. *Six hours a week, fall and spring quarters, three hours a week, winter quarter.* Professor Braune.

16c. PLANE TABLE SURVEYING AND MAPPING.

Preparation and interpretation of topographical maps. Lectures and field work. *Four hours a week, spring quarter. Laboratory fee, $2.00.* Professor Saville.

20c. ELEMENTS OF STRUCTURAL ENGINEERING. Prerequisite, Engineering 5abc.

A unified course in which are given the fundamentals of design in steel, reinforced concrete, and timber. This course is arranged for electrical engineering students. *Six hours a week, spring quarter.* Professor Braune.

22ac. FIELD WORK IN SURVEYING. Prerequisite, Mathematics 1-2-3E.

Practice in the use and adjustments of tape, level, transit, plane table, etc. The making and reading of maps; meridian and latitude determination. *Three hours a week, fall and spring quarters. Laboratory fee, $2.00 a quarter.* Mr. Trimble.

23s. RAILWAY AND HIGHWAY SURVEYING.—SUMMER ENGINEERING CAMP. Prerequisite, Engineering 22a.

Instruction in Plane, Railway, and Highway Surveying will be given during eight weeks of the summer term following the Sophomore

year. The course includes the following subjects: I. Chaining; differential, profile, and cross section levelling; plane-table, transit, and stadia topographic surveys; solar and stellar observations for the determination of meridian and latitude; triangulation, including base line measurement; measurement of stream discharge; hydrographic surveying.

II. Simple, compound, reversed, spiral, and vertical curves; frogs and turnouts; reconnaissance survey; preliminary survey; paper location; final location; mass diagram and earthwork computation; slope-staking; estimate of quantities and cost. *Forty hours a week, summer term. Laboratory fee, $10.00.* Professor Janda.

24abc. REINFORCED CONCRETE. Prerequisite, Engineering 5abc.

The development of the principles involved in the design of slabs, beams, girders, columns, and simple structures. *Two hours a week, fall, winter, and spring quarters.* Professor Hickerson.

25abc. ENGINEERING DESIGN.

Application of principles in course 24 to specific problems in the design of reinforced concrete and masonry structures. *Three hours a week, fall, winter, and spring quarters.* Professor Hickerson.

30c. WATER POWER and DRAINAGE ENGINEERING. Prerequisite, Engineering 32bc.

Preliminary studies of rainfall, run-off, and storage; characteristics of reaction and impulse wheels; dam designs; general drainage problems. *Six hours a week, spring quarter.* Professor Saville.

32bc. HYDRAULICS. Prerequisite, Mathematics 4-5-6E.

The principles of flow of water through orifices, weirs, tubes, nozzles, pipes, and open channels as applied to measurement of water to hydraulic engineering. The fundamental principles of impulse wheels, reaction turbines, and centrifugal pumps. *Six hours a week, winter and spring quarters. Laboratory fee, $2.00 a quarter.* Professor Saville and Mr. Trimble.

34abc. HYDRAULIC AND SANITARY ENGINEERING. Prerequisite, Engineering 32bc.

The design, construction, and operation of water supply and sewerage systems as applied to municipalities and rural communities. *Three hours a week, fall, winter, and spring quarters.* Professor Saville.

35abc. ENGINEERING DESIGN.

Application of principles in course 34 to specific problems in the general layout of simple projects for water works and sewerage. Routine tests of water and sewage. *Three hours a week, fall and spring quarters, six hours a week, winter quarter. Laboratory fee, $2.00 a quarter.* Professor Saville.

36ab. WATER AND SEWAGE LABORATORY. Elective for Senior and Graduate Students.

A brief course of lectures and laboratory designed to fit men to carry on both routine and investigational laboratory work in water, sewage, and milk analysis. A brief history of the development of modern bacteriology and public health is given, followed by laboratory work in the bacteriological and chemical study of water supply, stream pollution, sewage treatment, milk control, and malaria prevention. The public health aspect is emphasized. *1 hour lecture, 3 hours laboratory a week, fall and winter quarters.* Professor Saville.

37C. STREETS, HIGHWAYS, AND CITY PLANNING.

A brief course for students in the School of Commerce who elect the Municipal Administration Group. *Three hours a week, fall quarter.* Credit, ½ course. Professor Janda.

38C. MUNICIPAL WATER SUPPLIES AND SANITATION.

A brief course for students in the School of Commerce who elect the Municipal Administrative Group. *Three hours a week, winter quarter.* Credit, ½ course. Professor Saville.

44abc. RAILWAY AND HIGHWAY ENGINEERING.

A detail study of highway locations, foundations, and drainage; width and kind of roads; characteristics of various road materials; study of railway track appurtenances; highway and railway administration, legislation, and organization. *Three hours a week, fall, winter, and spring quarters.* Professor Janda.

45abc. ENGINEERING DESIGN.

Application of principles in course 44 to specific problems in the physical testing of road materials. *Three hours a week, fall, winter, and spring quarters. Laboratory fee, $3.00 a quarter.* Professor Janda.

50abc. ELECTRICAL MEASUREMENTS. Prerequisite, Physics 1-2-3E, and Mathematics 4E.

A study of the fundamental principles of electric circuits and apparatus, designed especially for students in Chemistry. The laboratory work will include the methods of electrical measurements used in the chemical laboratory, together with the applications of electrical energy for heating and control. *Five hours a week, fall, winter, and spring quarters. Laboratory fee, $5.00 a quarter.* Mr. Gray.

60abcs. ELEMENTS OF ELECTRICAL ENGINEERING. Prerequisite, Mathematics 4-5-6E.

A study of the generation, transmission, control, and utilization of electrical energy, designed especially to meet the needs of students in Civil Engineering. Textbook: Dawes' *Electrical Engineering. Six hours a week, fall, winter, spring, and summer quarters. Laboratory fee, $5.00 a quarter.* Mr. Gray.

61abc. INTRODUCTION TO ELECTRICAL ENGINEERING.

The aim of this course is to give the student an acquaintance with the materials, apparatus, and terminology used in electrical engineering. The fundamental principles of current, voltage, resistance, energy, and power are studied by means of practical problems with commercial apparatus. Practical work in wiring, together with a study of the National Electric code will be given in the spring quarter. *Four hours a week, fall, winter, and spring quarters. Laboratory fee, $4.00 a quarter.* Professor Lear and Mr. Gray.

62abcs. ELEMENTS OF ELECTRICAL ENGINEERING. Prerequisites, Engineering 61abc and Mathematics 1-2-3E.

A study of the fundamentals of direct-current generators and motors, followed by the elements of alternating-current circuits in the spring quarter. The laboratory work consists of studies of the operating characteristics of direct current machines; direct-current measurements; the effect of resistance, inductance, capacity, and frequency in alternating-current circuits; projects in illumination, telephony,

and storage batteries. Textbook: Timbie and Bush. *Four hours a week, fall, winter, spring, and summer quarters. Laboratory fee, $4.00 a quarter.* Professor Hoefer and Mr. Gray.

63abcs. ELECTRICAL MACHINERY. Prerequisites, Engineering 62abc, Mathematics 4-5-6E.

In the fall and winter quarters, the work will consist of a review of electric and magnetic circuits, and a thorough study of direct-current machines. The elements of alternating-current circuits and machines with special attention to the alternator, transformer, and induction motor will be studied in the spring quarter. Textbooks: Langdorf, and Lawrence I. *Six hours a week, fall, winter, spring, and summer quarters. Laboratory fee, $5.00 a quarter.* Professor Lear.

64abc. ALTERNATING CURRENT MACHINERY. Prerequisites, Engineering 63abc and Mathematics 4-5-6E, or equivalent.

An analytical study of e. m. f. and current wave shapes; effect of iron cores; the transformer; the alternator; the synchronous motor, induction motor, repulsion motor; the synchronous converter. The laboratory work will follow closely the class room study. Textbooks: Lawrence I and II. *Twelve hours a week, fall, winter, and spring quarters. Laboratory fee, $7.00 a quarter.* Professor Daggett and Mr. Gray.

70C. MUNICIPAL LIGHTING, POWER, AND PUBLIC UTILITIES.

A brief course for students in the School of Commerce who elect the Municipal Administration Group. *Three hours a week, spring quarter.* Credit, ½ course. Professor Daggett.

74a. ELECTRIC CIRCUITS. Prerequisites, Engineering 63abc and Mathematics 4-5-6E or equivalent.

A mathematical study of the fundamental phenomena in the electric, magnetic, dielectric, and thermal circuits, emphasizing the circuital relations common to all. Considerable attention will be devoted to the application of complex quantities to alternating current circuits. *Three hours a week, fall quarter.* Professor Lear.

74b. HYDRO-ELECTRIC POWER AND TRANSMISSION. Prerequisites, Engineering 32bc and 74a.

A survey of the problems involved in hydro-electric power developments and the transmission of electric power over long distances. Application of hyperbolic functions to the calculation of long lines. Study of super-power systems. *Three hours a week, winter quarter.* Professor Lear.

74c. ELECTRICAL EQUIPMENT PROJECTS. Prerequisites, Engineering 63abc or equivalent.

Solution of problems involving the application of electrical energy to various industries. The problems will be varied to suit the individual needs of the members of the class. Especial attention will be given to problems of importance to North Carolina industries. *Three hours a week, spring quarter.* Professor Lear.

84abc. DYNAMO DESIGN. Corequisite, Engineering 64abc.

Electrical, mechanical, and economic questions involved in the design of electrical machinery; the effect of the design constants on the proportions and operation of machines. Each student will be required to make complete calculations for a d. c. generator or motor, a transformer, and an alternator. Reference Book: Gray. *Six hours a week, fall, winter, and spring quarters.* Professor Lear.

85abc. RADIO ENGINEERING. Open only to students taking Engineering 64a.

A theoretical and practical study of electric oscillations, and the design of radio transmitters and receivers. The laboratory work will embrace measurements of resistance, inductance and capacitance at radio frequencies, resonance in coupled circuits, free and forced oscillations, characteristics of crystal rectifiers, measurement of antenna constants, electron tube characteristics and constants, study of electron tube amplifiers and oscillators. Under certain conditions it may be substituted for Engineering 84abc in the requirements for the degree of S.B. in Electrical Engineering. *Six hours a week, fall, winter, and spring quarters. Laboratory fee, $5.00 a quarter.* Professor Daggett.

90abcs. STEAM MACHINERY. Prerequisites, Mathematics 4-5-6E and Physics 1-2-3E.

A course in the fundamentals of steam-power and power-plant machinery, designed especially for the needs of students in Civil Engineering. Textbook: Allen and Bursley. *Two hours a week, fall, winter, spring, and summer quarters.* Professor Hoefer.

93abcs. HEAT POWER ENGINEERING. Prerequisite, Mathematics 4-5-6E.

A study of the laws governing the transformation of heat into mechanical energy, properties of gases and vapors; gas and vapor cycles; power, efficiency, and performance of heat engines; study of steam engines, steam turbines, and gas engines; fuels and combustion; boilers and accessories; gas producers, feed water heaters and purifiers, condensers, compressed air, and refrigeration. Textbook: Hirschfeld and Barnard. *Six hours a week, fall, winter, spring, and summer quarters. Laboratory fee, $5.00 a quarter.* Professor Hoefer.

94abc. ADVANCED HEAT POWER ENGINEERING. Prerequisite, Engineering 93abc.

A continuation of Engineering 93abc. An advanced study of power plant equipment, including calculations used in the design and application of such equipment. *Seven hours a week, fall, winter, and spring quarters. Laboratory fee, $5.00 a quarter.* Professor Hoefer.

95a. POWER PLANTS. Prerequisite, Engineering 94abc.

A study of load conditions and estimation of power requirements. On the basis of comparative economy of different types of power plant apparatus a choice is made of boilers, turbines, pumps, etc., to meet the demands of the given load. These are properly arranged in a plant lay-out and a study made of fixed charges and operating costs. *Ten hours a week, fall quarter.* Professor Hoefer.

96abc. MACHINE DESIGN. Prerequisite, Engineering 2s and 5abc.

A continuation of Engineering 2s. Further study of methods of calculation of form and size, based on load to be carried, of machine parts. The design of a complete machine is carried through, including calculations and preparation of working drawings. *Eight hours a week, fall, winter, and spring quarters.* Professor Hoefer.

Courses for Graduates

100abc. HYDRAULIC AND SANITARY ENGINEERING.

The study and investigation of special problems relating to hydraulics, water power, and sanitary engineering. Professor Saville.

103abc. STRUCTURAL ENGINEERING.

Computation of stresses of statically indeterminate structures. Lectures and design problems in the drafting room. Professors Braune and Hickerson.

106abc. RESEARCH IN HIGHWAY ENGINEERING.

Investigation of materials in Highway Engineering through coöperation with the Highway Commission. The Research Fellow will spend part time at the University and part time in the field with the Highway Commission. Fellowships will be awarded to worthy graduate students who can present the proper qualifications. Professor Janda.

107abc. DETAILED LABORATORY STUDY OF HIGHWAY MATERIALS.

The students will be given for investigation problems that are being constantly suggested in the scientific construction and betterment of highways. Professor Janda.

110abc. ELECTRICAL ENGINEERING SEMINAR.

An advanced course in electrical theory, including the study of distributed inductance and capacity, transient phenomena, e.m.f. waveshapes in alternators and synchronous-converters and the application of hyperbolic functions to the solution of problems in power transmission and telephonic circuits. The work will be covered by lectures, reports on assigned reading, and problems. Texts: Steinmetz's *Electric Discharges, Waves and Impulses,* Magnusson's *Electric Transients,* and Kennelly's *The Application of Hyperbolic Functions to the Solution of Electrical Engineering Problems.* Professor Daggett.

115abc. ELECTRICAL ENGINEERING RESEARCH AND DESIGN.

The solution of one or more definite problems in some particular field of electrical engineering. The work of this course will be outlined as far as possible, to suit the needs of the individual student, and will consist of original investigations, designs, or the economic study of some existing electric power plant. Professors Daggett and Lear.

DEPARTMENT OF ENGLISH

EDWIN GREENLAW, Ph.D., *Kenan Professor of English.*

JAMES FINCH ROYSTER, Ph.D., *Kenan Professor of English Philology.*

FREDERICK HENRY KOCH, A.M., *Professor of Dramatic Literature.*

NORMAN FOERSTER, A.M., *Professor of English.*

JOHN MANNING BOOKER, Ph.D., *Professor of English.*

THORNTON SHIRLEY GRAVES, Ph.D., *Professor of English.*

GEORGE MCFARLAND MCKIE, A.M., *Professor of Public Speaking.*

CLARENCE ADDISON HIBBARD, M.A., *Associate Professor of English.*

WILLIAM FLINT THRALL, Ph.D., *Associate Professor of English.*

ALMONTE CHARLES HOWELL, Ph.D., *Assistant Professor of English.*

GREGORY LANSING PAINE, Ph.D., *Assistant Professor of English.*

WILLIAM DOUGALD MACMILLAN, 3d, A.M., *Instructor in English.*

RAYMOND WILLIAM ADAMS, A.M., *Instructor in English.*

Roland Prince McClamroch, A.M., *Instructor in English.*
Robert Russell Potter, A.M., *Instructor in English.*
George Vernon Denny, S.B., *Instructor in English.*
William Olsen, A.B., *Instructor in English.*
Frank Thornber Thompson, A.M., *Instructor in English.*
John Milton Williams, A.M., *Instructor in English.*
A. Theodore Johnson, A.M., *Instructor in English.*
Philip Lovin Elliott, A.B., *Instructor in English.*
Benjamin Benson Lane, A.M., *Instructor in English.*
Francis Foster Bradshaw, A.B., *Instructor in English.*

Teaching Fellows in English, 1924-1925

Abner Wellington Kelly, A. M. — Wilbur White Stout, A.M.
William Ernest Bird, A.M. — William Stanford Webb, B.A.

Assistants in English, 1924-1925

William Stanford Webb, B.A. — William Ernest Bird, A.M.

Courses for Undergraduates

1. FRESHMAN ENGLISH. Required of all Freshmen except those in the School of Engineering.

Intensive reading, chiefly in prose; extensive reading among selected books in the Library; training in reading through a progressive series of exercises; training in writing through exercises in sentence-revision and through frequent written compositions. Fortnightly conferences. *Five hours a week, fall, winter, and spring quarters.* Credit, 1 course. Professors Thrall (Chairman), Howell, Paine; Messrs. Johnson, Lane, McClamroch, Thompson, Webb.

1a. COMPOSITION.

A prerequisite of English 1 for Freshmen who need additional drill in the mechanics of writing. In the case of Freshmen required to take this course, it will take the place of an elective course. One hour weekly is given to oral English. Intensive and extensive reading. Weekly conferences. *Six hours a week, fall, winter, and spring quarters.* Credit, 1 course. Messrs. Adams (Chairman), Bradshaw, Elliott, Kelley, Olsen.

2. ENGLISH FOR PRE-MEDICAL STUDENTS.

A continuation of English 1 for students in the two-year pre-medical course who do not need 1 A. *Five hours a week, spring quarter.* Credit, 1 course. Mr. MacMillan.

3-4-5. ENGLISH LITERATURE.

Works representative of prominent figures in successive periods of English Literature are studied as an expression of the life and thought of the periods in which they were written and as the embodiment of permanent human interests and ideals. English 3 is required of all Sophomores (except those in Engineering) and must be followed by either 4 or 5 as the student chooses. The third course may

be counted a sophomore elective should the student desire the entire sequence, 3, 4, and 5. *Five hours a week.* English 3, *fall and winter;* English 4, *winter and spring;* English 5, *spring quarter.* Credit, 3 courses. Professors Hibbard (Chairman), Foerster, Graves, Booker, Thrall, Paine; Messrs. MacMillan, Adams, Potter, Williams.

The following courses, 9abc, 10abc, 11abc, and 12abc, are offered by the Department of English especially for students in the School of Engineering. They are not open to others.

9abc. COMPOSITION.

The mechanics of writing studied through class work and conferences on inspection-trip reports and other written exercises of the Freshman year in Engineering courses. During the winter and spring quarters certain examples of modern scientific writing are also studied. *Two hours a week and conferences, fall, winter, and spring quarters.* Mr. Wright (Chairman), Messrs. Bird, Stout, Thompson.

10abc. COMPOSITION.

A continuation of the conference work of course 9, based on the written exercises of the Sophomore courses in Engineering. *Hours by arrangement, fall, winter, and spring quarters.* Professor Howell and an Assistant.

11abc. LITERATURE AND TECHNICAL COMPOSITION.

A course designed to make clear the relation between literature and science, both by extensive and intensive reading of the classics of English scientific literature and by actual practice in writing technical and professional forms. Required of Juniors in Engineering courses. *Three hours a week, fall, winter, and spring quarters.* Professor Howell.

12abc. CONFERENCE COURSE.

Conference work for Seniors in Engineering, based on laboratory reports and other written work of the Senior Year. *Hours by arrangement.* Professor Howell.

13-14-15. LITERARY INTERPRETATION. Sophomore, Junior, and Senior elective.

A course in the study of literature from the standpoint of oral interpretation. Types of literature used are the lyric in the fall quarter, the drama in the winter quarter, and fiction in the spring quarter. *Three hours a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor McKie.

16-17-18. PUBLIC DISCUSSION AND DEBATE. Sophomore, Junior, and Senior elective. Required of Sophomores in Engineering.

A study of the principles of argumentation and practice in the application of these principles to speaking in such forums as the town meeting, the legislature, and the court room. Attention will also be paid to voice, gesture, and the relations of speaker and audience. *Three hours a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor McKie and Mr. Olsen.

20. COMPOSITION. Sophomore, Junior, and Senior elective.

A course emphasizing commercial relations and problems, and affording practice in the writing of professional forms. Especially designed for students in the School of Commerce. *Five hours a week, fall, winter, and spring quarters.* Credit, 1 course. Mr. Williams.

21. ADVANCED COMPOSITION. Junior and Senior elective.

A course in expository writing for students desiring practice in organization of material. While complete in itself, the course is intended to give an understanding of practical rhetorical principles such as will lay a foundation for other forms of writing. *Five hours a week, fall quarter.* Credit, 1 course. Professor Hibbard.

22. ADVANCED COMPOSITION. Junior and Senior elective.

The work in this course will be chiefly in the field of the essay. Emphasis will be placed on contemporary interests, political, social, and literary, as they lend themselves to this form of writing. (Given in 1925-1926 and in alternate years.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Hibbard.

23. ADVANCED COMPOSITION. Junior and Senior elective.

This course is designed to offer students an opportunity for short story writing and to familiarize them with the technique of the form. Four stories will be written during the term and the work of various European and American authors will be studied. (Given in 1926-1927 and in alternate years.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Hibbard.

37. SHAKESPEARE: THE COMEDIES. Sophomore, Junior, and Senior elective.

A study of Shakespeare's contribution to comedy. There is a consideration of Elizabethan conditions, the technique of the theatre, and the art of the playwright, and a comparison of Shakespeare's practice in comedy with the classical and other forms. (Given in 1925-1926 and in alternate years). *Five hours a week, fall quarter.* Credit, 1 course. Professor Koch.

38. SHAKESPEARE: THE TRAGEDIES. Sophomore, Junior, and Senior elective.

This course is complementary to English 37. It is a study of Shakespeare's contribution to tragedy and a consideration of his conception of tragedy as compared with the classical and modern types. (Given in 1926-1927 and in alternate years). *Five hours a week, fall quarter.* Credit, 1 course. Professor Koch.

51. THE ROMANTIC MOVEMENT. Junior and Senior elective. Open also to Sophomores who have completed the required courses in English.

A survey of English literature of the romantic period with especial attention to the greater poets. *Five hours a week, winter quarter.* Credit, 1 course. Professor Thrall.

55. VICTORIAN LITERATURE, I. Junior and Senior elective.

The aims of this course and the one that follows it (56) are to understand the best known and the most representative works of the chief Victorian writers, to appreciate their literary qualities, and to relate them to their time and to ours. The writers studied in English 55 are Carlyle, Tennyson, Browning, Arnold, Dickens, and Thackeray. *Five hours a week, fall quarter.* Credit, 1 course. Professor Booker.

56. VICTORIAN LITERATURE, II. Junior and Senior elective.

(For description, see 55 above). The writers studied in this course are Ruskin, Rossetti, Morris, Swinburne, George Eliot, Charlotte Brontè, and George Meredith. *Five hours a week, winter quarter.* Credit, 1 course. Professor Booker.

59. AMERICAN LITERATURE. Junior and Senior elective. Open to Sophomores who have completed the required courses in English.

A study of the literature of the colonial and revolutionary periods and of the early nineteenth century through Hawthorne and Poe. *Five hours a week, fall quarter.* Credit, 1 course. Professor Thrall.

60. AMERICAN LITERATURE. Junior and Senior elective. Open to Sophomores who have completed the required courses in English.

A survey of American Literature from Emerson to the present. *Five hours a week, winter quarter.* Credit, 1 course. Professor Hibbard.

61. GREAT BOOKS OF THE NINETEENTH CENTURY, I. Junior and Senior elective.

The aims of this course and the one that follows it (62) are: first, to supplement the reading in English 3-4 for those who do not contemplate electing more than one or two courses in English literature; second, to interest the student in masterpieces of the 19th century by revealing these as guides for man in the most vital relationships of life,—namely, in 61, his relations to God and nature; in 62, his relations to woman and the State. *Five hours a week, fall quarter.* Credit, 1 course. Professor Booker.

62. GREAT BOOKS OF THE NINETEENTH CENTURY, II. Junior and Senior elective.

(For description, see 61 above). *Five hours a week, winter quarter.* Credit, 1 course. Professor Booker.

64. CONTEMPORARY POETRY. Sophomore, Junior, and Senior elective.

A course designed to familiarize the student with the main currents and tendencies in poetry since 1900. It will deal with both English and American poetry and will stress movements and forms rather than writers. Lectures and notes on verse form and structure will serve as an introduction to the study of individual poems. *Five hours a week, spring quarter.* Credit, 1 course. Professor Howell.

66. THE NINETEENTH CENTURY NOVEL. Sophomore, Junior, and Senior elective.

A survey of the development of the English novel during the nineteenth century, with attention to parallel developments in French and Russian fiction. Special studies will be made of Scott, Thackeray, George Eliot, and George Meredith; considerable reading will be required in the work of Balzac, Turgenieff, and Tolstoy. *Five hours a week, spring quarter.* Credit, 1 course. Professor MacMillan.

67. RECENT ENGLISH LITERATURE. Junior and Senior elective.

The primary object of this course is to follow certain main currents of modern thought in the more significant literature of the three decades preceding 1914. The authors with whom the course is chiefly concerned are Hardy, Stevenson, Kipling, Arnold Bennett, Conrad, and Shaw. *Five hours a week, spring quarter.* Credit, 1 course. Professor Booker.

Courses for Graduates and Advanced Undergraduates

31-32-33. DRAMATIC COMPOSITION.

A practical course in dramatic composition. Emphasis is placed on the materials of local tradition and folk-lore, and of present-day life,

in North Carolina. Students from other sections are expected to make use of the materials of their own experience and observation. Plays written in the course are selected for production by The Carolina Playmakers, and serve to illustrate the principles of dramatic art. Registration in the course is limited. *Five hours a week, fall, winter, and spring quarters.* Credit, 3 courses. Professor Koch.

34-35-36. DRAMATIC PRODUCTION.
A practical course in dramatic production. During the year the following subjects are studied in theory and practice: acting, make-up, stagecraft (including the designing and making of stage models and actual construction of scenery for the productions of The Carolina Playmakers), lighting, costuming, theatre designing and organization. At least one play will be produced in the course each quarter for public presentation. This course is a means of training students as directors of school and community theatres. Lectures will be given during the year by Professor Koch and other specialists in the various phases of dramatic art. Registration in the course is limited. *Five hours a week, fall, winter, and spring quarters. Laboratory fee, $2.00 a quarter.* Credit, 3 courses. Mr. Denny.

40. ENGLISH LITERATURE, 1557-1674.
A survey of English literature, exclusive of the drama, from the beginning of the Elizabethan period to the death of Milton. (Given in 1925-1926 and in alternate years.) *Five hours a week, fall quarter.* Credit, 1 course. Professor Greenlaw.

41. SPENSER.
A study of the poetry of Spenser as an introduction to the English Renaissance. (Given in 1926-1927 and in alternate years.) *Five hours a week, fall quarter.* Credit, 1 course. Professor Greenlaw.

42. BACON.
A study of the works of Bacon, with emphasis on his relation to educational and political theory and his contribution to scientific method. (Given in 1926-1927 and in alternate years.) *Five hours a week, winter quarter.* Credit, 1 course. Professor Greenlaw.

43-44. THE ELIZABETHAN DRAMA.
A brief study of the beginnings of the English drama, followed by an intensive study of the period from Lyly to the closing of the theatres. The works of Shakespeare are considered in their relationship to those of his immediate predecessors and contemporaries. Students who propose to elect this course are advised to prepare for it by taking at least one of the following courses: English 37, 38, 40, 41, 42. (Given in 1926-1927 and in alternate years.) *Five hours a week, winter and spring quarters.* Credit, 2 courses. Professor Graves.

45. MILTON.
The works of Milton are studied in the light of the life, times, and culture of the poet, with some consideration of the problems involved in such a study. (Given in 1925-26 and in alternate years.) *Five hours a week, winter quarter.* Credit, 1 course. Professor Greenlaw.

47-48. ENGLISH LIFE AND THOUGHT IN EIGHTEENTH CENTURY LITERATURE.
A survey of English literature from 1660 to 1780, emphasizing (1) changes in national life and manners; (2) the growth of philosophic and political systems; (3) certain characteristic literary forms, such as comedy, the essay, and the novel. *Five hours a week, fall and winter quarters.* Credit, 2 courses. Professor ————.

65. AMERICAN LITERATURE: ADVANCED COURSE.

A study of the literature of the early national period in relation to English literature, with special attention to Freneau, Irving, Bryant, and Cooper. Open to those who have had one or more of the following courses or an equivalent: English 59, 60. *Five hours a week, fall quarter.* Credit, 1 course. Professor Paine.

68. COMPARATIVE DRAMA.

A general survey of the drama and the theatre from Aeschylus to Ibsen. The development of dramatic literature is studied through representative plays in translation of the leading European dramatists. *Five hours a week, winter quarter.* Credit, 1 course. Professor Koch.

69. NINETEENTH CENTURY DRAMA.

A study of representative English plays in the nineteenth century. Particular attention is paid to the Celtic Renaissance. Consideration is given to the beginnings of a new folk drama in America. (Given in 1926-1927 and in alternate years.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Koch.

71. THE MODERN DRAMA.

A study of representative plays of recent times, beginning with Ibsen. Special attention is given to the function of the drama in interpreting modern thought and changing social conditions. (Given in 1925-1926 and in alternate years.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Koch.

75. THE RESTORATION AND EIGHTEENTH CENTURY DRAMA.

A rapid survey of the progress of English drama from the Restoration to Sheridan. Special emphasis will be placed upon the types of drama that flourished during the years 1660-1790 and the influences that determined the theatrical conditions of the period. (Given in 1925-1926 and in alternate years.) *Five hours a week, winter quarter.* Credit, 1 course. Professor Graves.

78. LITERARY CRITICISM.

Through an analysis of the literary theories of Aristotle, Dryden, Johnson, Coleridge, Ste.-Beuve, Henry James, Anatole France, Croce, etc., this course aims to render clear the principles that have animated classical, pseudo-classical, romantic, and realistic literature. It includes a consideration of modern scientific method in relation to the ultimate purposes of scholarship. *Five hours a week, spring quarter.* Credit, 1 course. Professor Foerster.

81. OLD ENGLISH: INTRODUCTORY COURSE.

A study of Old English grammar and syntax. A considerable amount of Old English prose is read. *Five hours a week, fall quarter.* Credit, 1 course. Professor Royster.

82. PRESENT-DAY ENGLISH.

A consideration of the habits of current English: recent spread of English; American English; class and geographical dialects; written and spoken language; word growth and decay; other tendencies observable in the living language. *Five hours a week, spring quarter.* Credit, 1 course. Professor Royster.

83. MIDDLE ENGLISH: CHAUCER.

Previous training in Old or Middle English, not a fixed prerequisite. The work of the course will consist chiefly of a reading and discussion of Chaucer's works, with some consideration of Chaucer's language. (Given in 1926-1927 and in alternate years.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Royster.

84. MIDDLE ENGLISH LITERATURE: INCLUSIVE OF CHAUCER.

The main purpose of the course is to acquaint the student with the social, political, and religious background of medieval England. A fuller study will be made of the historical and philological relations of Middle English than in English 83. *Five hours a week, winter quarter.* Credit, 1 course. Professor Royster.

Courses Primarily for Graduates

101. BEOWULF. Prerequisite, English 81.

Five hours a week, fall or spring quarter. Credit, 1 course. Professor Royster.

110abc. STUDIES IN ELIZABETHAN LITERATURE.

Research in special problems in Elizabethan literature. Open to those who have had one of the following courses or an equivalent; English 40, 41, Comparative Literature 61. (Given in 1925-1926 and in alternate years.) *Fall, winter, and spring quarters.* Credit, 1½ courses. Professor Greenlaw.

112abc. STUDIES IN SEVENTEENTH CENTURY LITERATURE.

Research in special problems in the literature and thought of the seventeenth century. Open to those who have had one or more of the following courses or an equivalent: English 40, 41, 42, 45, Comparative Literature 61. (Given in 1926-1927 and in alternate years.) *Fall, winter, and spring quarters.* Credit, 1½ courses. Professor Greenlaw.

117. ROMANTICISM IN GERMANY AND ENGLAND.

This course traces the development of German romantic thought and art, and their influences in England. Attention is centered upon the problem of the native and foreign elements in Coleridge, Wordsworth, and the young Carlyle. *Five hours a week, fall quarter.* Credit, 1 course. Professor Foerster.

118. ROMANTICISM IN THE UNITED STATES.

This course studies the influence of British and Continental romanticism upon American writers, and the modification of the romantic tradition by the conditions of our life. Attention is centered upon a single topic or personality, varied from year to year. *Five hours a week, winter quarter.* Credit, 1 course. Professor Foerster.

125-126-127. DRAMATIC THEORY AND PRACTICE.

The purpose of this course is two-fold: to study the development of dramatic technique and criticism; and to give to graduate students an opportunity for advanced work in dramatic composition and production. The growth of dramatic theory and practice is treated in a comparative study of the chief periods of dramatic literature. In the original play-writing emphasis is placed on the materials of native tradition and present-day life. The Carolina Playmakers fur-

nish a working laboratory in production for plays written in this course. In this way the essentials of stagecraft are studied and demonstrated in practice. *Five hours a week, fall, winter, and spring quarters.* Credit, 3 courses. Professor Koch and Mr. Denny.

131. SEMINAR: METHODS.
The principles and method of the higher study of English, with a series of simple problems in bibliography and literary history. *Five hours a week, fall quarter.* Credit, 1 course. Professor Graves.

133. SEMINAR: THE TEACHING OF ENGLISH.
A study of the method and content of the English course in high schools and elementary college courses. *Spring quarter.* Credit, ½ course. Professor Greenlaw and others.

141. SEMINAR.
Research in a special field under the direction of a member of the department.

DEPARTMENT OF GEOLOGY

COLLIER COBB, A.M., Sc.D., *Professor of Geology and Mineralogy.*
WILLIAM FREDERICK PROUTY, Ph.D., *Professor of Stratigraphic Geology.*
JOEL HOWARD SWARTZ, Ph.D., *Assistant Professor of Geology.*
GERALD RALEIGH MACCARTHY, A.M., *Instructor in Geology.*
JEFFERSON CARNEY BYNUM, S.B., *Instructor in Geology.*

Teaching Fellow in Geology, 1924-1925

HERMAN JENNINGS BRYSON, A.B.

Assistants in Geology, 1923-1924

KENNETH GEORGE DACY. CLARENCE EDMUND MILLER.
CLAUDE STUART JOHNSTON. HARRY RICHARD SEIWELL.
JOSEPH HENRY WATKINS.

Courses for Undergraduates

1-2. INTRODUCTION TO GEOLOGY.
Lectures with laboratory and field work; laboratory work in the first quarter on common minerals and rocks, and map interpretation; in the second quarter on geological folios and the more common fossils. The first quarter deals with physical geology, with physiographic processes and their results; the second quarter is a study of the outlines of historical geology. *Six hours a week, fall and winter quarters. Laboratory fee, $3.00 a quarter. Geology 1 repeated in spring quarter.* Credit, 2 courses. Professors Cobb, Prouty, Swartz; Mr. MacCarthy and Assistants.

3-4. MINERALOGY. Junior and Senior elective. Prerequisites, Geology 1-2 and Chemistry 1-2.
Crystallography, physical and chemical properties of minerals, blowpipe analysis; lectures, laboratory work, and field work. *Five hours a week, fall and winter quarters. Laboratory fee, $5.00 a quarter.* Credit, 2 courses. Mr. MacCarthy.

5. INDUSTRIAL AND COMMERCIAL GEOGRAPHY. Required of Freshmen in the School of Commerce. Not open to others.
Lectures and laboratory work. The first part of the course deals briefly with weather and climate, origin and nature of soils, and the chief natural divisions of the world. *Five hours a week, fall, winter, and spring quarters. Laboratory fee, $3.50 a quarter.* Credit, 1 course. Mr. Bynum.

Courses for Graduates and Advanced Undergraduates

11-12. ECONOMIC GEOLOGY. Prerequisites, Geology 1-2, 3-4, and Chemistry 1-2.
Lectures, laboratory work, and reports. During the fall quarter the non-metallic minerals will be studied. The metallic minerals will be considered in the winter quarter. *Five hours a week, fall and winter quarters. Laboratory fee, $3.50 a quarter.* Credit, 2 courses. Professor Prouty.

13. PETROLOGY. Prerequisites, Geology 1-2, 3-4, and Chemistry 1-2.
Laboratory work on rocks; a study of the origin, classification, and distribution of rocks. *Five hours a week, spring quarter. Laboratory fee, $3.50.* Credit, 1 course. Professor Prouty and Assistant.

14. PETROGRAPHY. Prerequisites, Geology 1-2, 3-4, and Chemistry 1-2.
Lectures, laboratory work on the microscopic physiography of the rock-forming minerals; optical mineralogy and the theory of light as applied to the polarizing microscope; minerals as observed in thin rock sections. *Five hours a week, spring quarter. Laboratory fee, $3.50.* Credit, 1 course. Professor Prouty.

15-16. STRUCTURAL AND FIELD GEOLOGY. Prerequisite, Geology 1-2.
Lectures, with laboratory, field work, problems, and conferences. The first quarter deals with structural geology and map interpretation; the second quarter with geological note taking, surveying, map making, and field practice. *Five hours a week, winter and spring quarters. Laboratory fee, $3.50 a quarter.* Credit, 2 courses. Professor Prouty and Assistants.

17. OIL GEOLOGY. Prerequisite, Geology 15-16.
Lectures, laboratory work, and reports. A study of the origin, distribution, and accumulation of petroleum, with special relation to the oil fields of North America; methods of prospecting for oil, recovery of oil, and valuation of oil properties. *Five hours a week, spring quarter. Laboratory fee, $3.50.* Credit, 1 course. Professor Prouty.

18-19-20. ENGINEERING GEOLOGY. For students in Engineering.
Three hours a week, fall, winter, and spring quarters. Laboratory fee, $3.50 a quarter. Credit, 1½ courses. Professor Prouty.

21-22. INDUSTRIAL AND COMMERCIAL GEOGRAPHY. Senior elective.
Lectures, library work, and laboratory work. The course deals with man's interaction with his varying environment in the development of industries, and with the geographic conditions of different countries as giving rise to commerce. *Five hours a week, fall and winter quarters. Laboratory fee, $2.50 a quarter.* Credit, 2 courses. Professor Cobb and Assistant.

23. HUMAN GEOGRAPHY. Junior and Senior elective.

The course consists of the principles studied in Geology 21-22 in their application to some one of the continents. In 1925 North America will be studied; in 1926 the course will deal with South America. *Five hours a week, spring quarter. Laboratory fee, $2.50.* Credit, 1 course. Professor Cobb and Assistant.

24-25. ORIGIN AND NATURE OF SOILS. Prerequisites, Geology 1-2, 3-4, Chemistry 1-2.

Lectures, field work, laboratory work, and theses. The course is given primarily for men who wish to enter the State or Federal Soil Surveys or to engage in farming. Students in this course are expected to keep Saturday open for field work. *Five hours a week, winter and spring quarters. Laboratory fee, $2.50 a quarter.* Credit, 2 courses. Professor Cobb and Assistants.

26. ADVANCED WORK IN PHYSIOGRAPHY. Prerequisite, Geology 1-2. Junior and Senior elective.

Lectures, field work, and laboratory work. dealing in detail with physiographic processes and their results; geomorphology. An extended field study is required in this course. *Three hours a week, spring quarter. Laboratory fee, $2.00.* Credit, ½ course. Professor Cobb.

27. PRINCIPLES OF GEOLOGY. Junior and Senior elective. Prerequisite, Geology 1-2.

Principles of Geology, including History of Geological Science; lectures, field work, and library work, with reports, including a report on the surficial geology of a selected area at a distance from Chapel Hill. *Five hours a week, fall quarter. Laboratory fee, $3.00.* Credit, 1 course. Professor Cobb and Assistant.

29. PALEONTOLOGY. Prerequisite, Geology 1-2.

Five hours a week, fall quarter. Laboratory fee, $3.50. Credit, 1 course. Mr. MacCarthy.

31. MINERALOGY FOR ENGINEERS. Not open to others.

Three hours a week, coöperative schedule, fall and winter quarters. Credit, ½ course. Mr. MacCarthy.

51-52-53. ADVANCED FIELD WORK AND SPECIAL RESEARCH IN GEOLOGY AND GEOGRAPHY.

Problems and work adapted to the special needs of the student. For Graduates and for specially prepared Seniors. Students in this course are expected to keep Saturday open for field work. These courses may be continued under the same numbers for more than one year as the subject advances, credit being given for each repetition. *Five hours a week, fall, winter, and spring quarters.* Credit, 3 courses. Professors Cobb, Prouty, Swartz, and Assistants.

61. ADVANCED CRYSTALLOGRAPHY.

This course includes a detailed consideration of the nature of crystals and crystalline substances, the use of both contact and reflecting goniometer, and crystal drawing. Open to students who have had Chemistry 1-2 and Geology 3-4. *Five hours a week, lectures and laboratory, spring squarter. Laboratory fee, $3.50.* Credit, 1 course. Mr. MacCarthy.

71-72-73. ADVANCED PALEONTOLOGY.

A study of the classification and generic and specific determination of the invertebrata, chiefly fossil. *Five hours a week, lectures and laboratory, fall, winter, and spring quarters. Laboratory fee, $3.50 a quarter.* Credit, 3 courses. Professor Swartz.

74-75-76. ADVANCED PALEONTOLOGY.

A study of the anatomy, classification, and generic and specific determination of the higher invertebrata, chiefly fossil. (Given in 1926-1927, and in alternate years.) *Five hours a week, lectures and laboratory, fall, winter, and spring quarters. Laboratory fee, $3.50 a quarter.* Credit, 3 courses. Professor Swartz.

81-82-83. ADVANCED HISTORICAL GEOLOGY. Prerequisite, Geology 1-2.

A study of the principles of historical geology and stratigraphy, the history of stratigraphic geology, the origin of the earth, and the geography, life, and geologic events of the Archaeozoic, Proterozoic, and Paleozoic eras of the earth's history. *Three hours a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Swartz.

91-92. SUMMER FIELD COURSE IN GEOLOGY. Prerequsite, Geology 1-2.

A six weeks course to be given in North Carolina and bordering states. In this course economic, structural, stratigraphic geology and geological mapping will be emphasized. For details of course consult bulletin of geology courses, University of North Carolina. This course will coincide with the scheduled six weeks summer school courses. Credit, 2 courses. Professors Cobb, Prouty, Swartz, and Assistant. Given in 1925.

93-94. SUMMER FIELD COURSE IN GEOLOGY.

This course is similar to 91-92 but is to be given in alternate years with 91-92 and in different type of geological area. Credit, 2 courses.

Courses for Graduates

104-105-106. SPECIAL RESEARCH IN GEOLOGY AND GEOGRAPHY.

The student is expected to devote six weeks to work in the field, accompanied by the instructor, and to work up his results during the first quarter of the college year. The entire research constitutes three courses. These courses may be continued under the same numbers for more than one year as the subject advances, credit being given for each repetition. *Fall, winter, and spring quarters.* Credit, 3 courses. Professors Cobb and Prouty.

107-108-109. SPECIAL RESEARCH.

Special Research in economic geology, in historical geology, in paleontology, petrology and petrography, and in geography, two quarers of which must be taken as a seminar course. These courses may be continued under the same numbers for more than one year as the subject advances, credit being given for each repetition. *Fall, winter, and spring quarters.* Credit, 3 courses.

The Geological Seminar meets weekly for the review and discussion of current geological literature, and for the presentation of original papers.

DEPARTMENT OF GERMANIC LANGUAGES

WALTER DALLAM TOY, M.A., *Professor of the Germanic Languages and Literatures.*

KENT JAMES BROWN, Ph.D., *Professor of German.*

ERNST CHRISTIAN METZENTHIN, Ph.D., *Assistant Professor of German.*

JOHN FRED JOST, A.M., *Instructor in German.*

Courses for Undergraduates

1-2. ELEMENTARY COURSE.

Grammar; written and oral exercises; translation; sight reading. This course may be counted for credit toward the A.B. degree provided it is followed by three other German courses. It may be counted for credit as an elective by students who have selected for their language requirement two other foreign languages. *Five hours a week, every quarter. German 1 is not offered in the spring quarter.* Credit, 2 courses. Professor Metzenthin and Mr. Jost.

3-4. INTERMEDIATE COURSE. Freshman and Sophomore elective. Prerequisite, German 1-2.

Translation, sight reading, composition, grammar, oral exercises. *Five hours a week, every quarter.* Credit, 2 courses. One section of German 4 is provided for those who are especially interested in science, but is not open to candidates for the degree of A.B. Professors Brown and Metzenthin.

11. INTERMEDIATE COURSE. Junior and Senior elective. Prerequisite, German 3-4.

Practice in writing and speaking German. *Five hours a week,* spring quarter.* Credit, 1 course. Professor Brown.

17. INTERMEDIATE COURSE. Prerequisite, German 1, 2, 3 or the equivalent.

Rapid reading of modern German. This course is intended for graduate students who desire to improve their facility in reading German. It does not count for degree credit, but its satisfactory completion will entitle the candidate to a certificate satisfying the requirement of a reading knowledge of German. *Five hours a week, fall quarter.* No credit. Professor Toy.

21. ADVANCED COURSE. Sophomore, Junior, and Senior elective. Prerequisite, German 3-4.

Lessing: *Minna von Barnhelm;* Schiller: *Die Jungfrau von Orleans. Five hours a week, fall or winter quarter.* Credit, 1 course. Professor Toy.

22. ADVANCED COURSE. Sophomore, Junior, and Senior elective. Prerequisite, German 3-4.

Schiller: *Wilhelm Tell;* Goethe: *Iphigenie auf Tauris,* or *Egmont. Five hours a week, winter or spring quarter.* Credit, 1 course. Professor Toy.

23. ROMANTICISM IN GERMANY. Sophomore, Junior, and Senior elective. Prerequisite, German 3-4.

Lectures, reading of selected texts. *Five hours a week, spring quarter.* Credit, 1 course. Professor Toy.

* See foot-note on next page.

25-26. WIDE READING IN GERMAN LITERATURE OF THE NINETEENTH CENTURY. Sophomore, Junior, and Senior elective. Prerequisite, German 3-4.
Five hours a week, fall and winter, or winter and spring quarters. Credit, 2 courses. Professor Brown.

Courses 21-22, 23, 25-26, are parallel in grade. They present an introduction to the study of German literature.

Courses for Graduates and Advanced Undergraduates

31. GERMAN LITERATURE SINCE 1700. Junior and Senior elective.
Lectures will be given on the development of German life and literature from 750 A.D. to the special period embraced in this course, and during the quarter there will be lectures on later literary movements and on the authors whose works are read. The reading will be taken from the translated works of Klopstock, Wieland, Lessing, Goethe, Schiller. In some cases the selection of authors to be read will depend upon the possibility of obtaining reliable English translations. *Five hours a week,* winter quarter.* Credit, 1 course. Professor Toy.

41-42. GOETHE'S LIFE AND WORKS. Prerequisite, German 21, or 22, or 23, or 25-26. This course may be elected only after consultation with the instructor.
Lectures, readings, reports. Gœtz von Berlichingen, Werthers Leiden, Tasso, Gedichte, Wilhelm Meister, Herman und Dorothea, Briefe, Dichtung and Warhheit. *Five hours a week,* two quarters.* Credit, 2 courses. Professor Brown.

43-44. GOETHE'S FAUST. Prerequisite, German 21, or 22, or 23, or 25-26. This course may be elected only after consultation with the instructor.
Goethe: *Faust,* Parts I and II. *Five hours a week,* two quarters.* Credit, 2 courses. Professor Toy.

45. GERMAN DRAMA IN THE NINETEENTH CENTURY. Prerequisite, German 21 and 22 or 25 and 26.
Kleist, Grillparzer, Hebbel, Ludwig, Hauptmann. Reading, lectures, reports. *Five hours a week,* one quarter.* Credit, 1 course. Professor Brown.

61. INTRODUCTION TO COMPARATIVE PHILOLOGY. Prerequisite, 1 classical and 1 modern foreign language. This course may be elected only after consultation with the instructor.
Theories on the origin and development of human speech. Classification and history of language; Indo-European Branch: a. Classical languages; b. Romance group (especially French); c. Germanic family: Gothic, Old Saxon, Anglo-Saxon (Old English), Old High German. Linguistics (Phonetics, Accentuation, Sound Shiftings, Etymology). *Five hours a week,* one quarter.* Credit, 1 course. Professor Metzenthin.

Courses Primarily for Graduates

101. GOTHIC. Prerequisite, German 21, or 22, or 23, or 25-26.
Braune's *Gotische Grammatik;* selected parts of Paul's *Grundriss der Germanischen Philologie.* Introduction to Germanic Philology. *Five hours, a week,* one quarter.* Credit, 1 course. Professor Toy.

* NOTE.—Courses 11, 31, 41-42, 43-44, 45, 61, 101, 103, 105, 107, will be given, if they are desired by a sufficient number of students. In any case the department reserves the right to withdraw a course for which the registration is very small.

103. OLD HIGH GERMAN. Prerequisite, German 21, or 22, or 23, or 25-26.

Braune's *Althochdeutsche Grammatik;* Braune's *Althochdeutsches Lesebuch. Five hours a week,* one quarter.* Credit, 1 course. Professor Toy.

105. OLD SAXON. Prerequisite, Advanced German or English.

Introduction to the Grammar and Syntax of the Old Saxon dialect of the Germanic language; comparison with Old English and Old High German. Study of "Heliand" and "Genesis,"—including the characteristics of the Heroic Epic and its alliterative form,—as well as of the minor prose Low German documents of the 9th and 10th centuries, based on Otto Basler, *Altsächisch,* (Freiburg, 1923). *Five hours a week,* one quarter.* Professor Metzenthin.

107. MIDDLE HIGH GERMAN. Prerequisite, German 21, or 22, or 23, or 25-26.

Middle High German grammar. Wide reading. *Five hours a week, *one quarter.* Credit, 1 course. Professor Brown.

DEPARTMENT OF GREEK

See Department of Classical Languages and Literatures, p. 99.

DEPARTMENT OF HISTORY AND GOVERNMENT

JOSEPH GREGOIRE DEROULHAC HAMILTON, Ph.D., *Kenan Professor of History and Government.*

HENRY MCGILBERT WAGSTAFF, Ph.D., *Professor of History.*

**WILLIAM WHATLEY PIERSON, JR., Ph.D., *Professor of History and Government.*

ROBERT DIGGS WIMBERLY CONNOR, Ph.B., *Kenan Professor of History and Government.*

***FRANK PORTER GRAHAM, A.M., *Associate Professor of History.*

WALLACE EVERETT CALDWELL, Ph.D., *Associate Professor of History.*

CHESTER PENN HIGBY, Ph.D., *Associate Professor of History.*

FRANCIS BUTLER SIMPKINS, A.M., *Acting-Associate Professor of History.*

ALBERT RAY NEWSOME, A.M., *Assistant Professor of History.*

KEENER CHAPMAN FRAZER, A.M., *Assistant Professor of Government.*

HENRY THOMAS SHANKS, A.M., *Instructor in History.*

ROSSER HOWARD TAYLOR, A.M., *Instructor in History.*

DELBERT HAROLD GILPATRICK, A.M., *Instructor in History.*

CLARENCE CLIFFORD NORTON, A.M., *Instructor in History.*

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* See foot-note on preceding page.

** Absent on leave, on the Kenan Foundation, 1924-1925.

*** Absent on leave, 1924-1925.

Teaching Fellows in History, 1924-1925

William Pew Brandon, Ph.B. William Sumner Jenkins, A.B.
James Welch Patton, A.B.

Assistant in History

Francis Charles Anscombe, A.M.

HISTORY

Courses for Undergraduates

1-2. FOUNDATIONS OF MODERN HISTORY.

A general course dealing with the fundamental factors in modern civilization in Europe and the United States. The emphasis of the course will rest upon the commercial revolution, European expansion, the Protestant Revolt, colonial and dynastic rivalry, the Old Régime, the French Revolution, the industrial revolution, the rise of Democracy, the growth of modern imperialism, and the course of modern international relations. Lectures, text-books, and readings. *Five hours a week, fall and winter, and winter and spring quarters.* Credit, 2 courses. Professors Hamilton, Wagstaff, Pierson, Connor, Caldwell, Higby, Simpkins, Newsome, Frazer, and Messrs. Shanks, Taylor, Gilpatrick, Norton, and Anscombe.

3-4. ENGLISH HISTORY. Sophomore, Junior, and Senior elective.

The purpose of this course is to convey a good working knowledge of English history and broaden it into a survey of the part the Anglo-Saxon race has played in world history. Text-book, readings, and lectures. *Five hours a week, fall and winter quarters.* Credit, 2 courses. Professor Wagstaff.

5-6. ANCIENT HISTORY. Sophomore, Junior, and Senior elective.

A course dealing with the history of the Orient, Greece, and Rome to the time of Constantine. Particular attention will be paid to social and economic conditions and cultural and religious developments. *Five hours a week, winter and spring quarters.* Credit, 2 courses. Professor Caldwell.

7-8. AMERICAN HISTORY. Sophomore, Junior, and Senior elective.

A general survey of the history of the United States, European background, discovery and exploration, colonization, revolution, independence, federation, western expansion, democracy, slavery, civil war, reconstruction, businesss and politics, progressive movement, and world politics. Lectures, text-books, and readings. *Five hours a week, winter and spring quarters.* Credit, 2 courses. Mr. Shanks.

9. HISPANIC-AMERICAN HISTORY: The Colonial Period and the Wars of Independence. Sophomore, Junior, and Senior elective.

In this quarter a general survey will be made of Spanish and Portuguese America from the establishment of colonial settlements through the wars of independence. A study of the transplantation of Hispanic civilization in language, customs, religion, trade, and political institutions; Indian relations; labor and social conditions; education and industry; the causes and events of the struggles for independence. Lectures and readings. *Five hours a week, fall quarter.* Credit, 1 course. Professor Pierson.

10. HISPANIC-AMERICAN HISTORY: Development of Nationality in South America. Sophomore, Junior, and Senior elective.
The modern history of Argentina, Brazil, Chile, Uruguay, Paraguay, Peru, Bolivia, and Ecuador. Attention will be directed to the establishment of these republics, the evolution of their political theory, the struggle for political stability, the exploitation of resources, the diplomatic and commercial relations with the United States and Europe, the international problems of South America, the contemorary progress in politics and society. Lectures and readings. (Given in 1925-1926 and in alternate years). *Five hours a week, winter quarter.* Credit, 1 course. Professor Pierson.

11. HISPANIC-CARIBBEAN AMERICAN HISTORY: Hispanic North American and the Caribbean Countries. Sophomore, Junior, and Senior elective.
Emphasis in this course will be placed upon the same general factors as in History 10. The diplomatic and commercial relations of the United States and Mexico, the insular republics, the Central American countries, and Colombia, Panama, and Venezuela will receive special attention. Lectures and readings. (Given in 1926-1927 and in alternate years.) *Five hours a week, winter quarter.* Credit, 1 course. Professor Pierson.

12. AMERICAN BIOGRAPHY. Prerequisite, History 1-2. Sophomore elective. Open also to qualified Freshmen.
A general survey of the lives of a selected group of distinguished Americans and a study of their influence upon the history of the United States. Lectures, readings, and reports. *Five hours a week, spring quarter.* Credit, 1 course. Professor Hamilton.

Courses for Graduates and Advanced Undergraduates

31. HISTORY OF THE ORIENT AND EARLY GREECE.
An advanced course in the history of the Bronze Age in the Mediterranean, the beginning of civilization in Egypt, Babylonia, Syria and Palestine, and Crete, and the history of their development down to the time of the Persian Empire. Attention will be given to the hieroglyphic and cuneiform scripts, to economic conditions, government and law, artistic and literary achievements, and religion. (Given in 1925-1926 and in alternate years.) *Five hours a week, fall quarter.* Credit, 1 course. Professor Caldwell.

32. HISTORY OF GREECE.
A history of the classical period of Ancient Greece; the Homeric Age, the Expansion of the Hellas, the Renaissance of the Ægean, the Fifth and Fourth Centuries to the death of Alexander. Particular attention will be given to the growth of democracy, social and economic aspects, artistic, literary, and religious developments. (Given in 1925-1926 and in alternate years.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Caldwell.

33. HISTORY OF HELLENISTIC GREECE AND THE ROMAN REPUBLIC.
A survey of the world into which Rome entered, the political, economic, and social conditions of the Eastern Mediterranean, Hellenistic art, literature, and religion, the establishment and growth of the Roman Republic, Roman expansion throughout the Mediterranean, the growth of Roman culture, the Roman Revolution, and the foundations of the Empire. (Given in 1926-1927 and in alternate years.) *Five hours a week, fall quarter.* Credit, 1 course. Professor Caldwell.

34. HISTORY OF THE ROMAN EMPIRE AND THE EARLY MIDDLE AGES.

A survey of history from Augustus to Charlemagne; the organization and administration of the Roman Empire, social, economic, and religious conditions and developments, the collapse of ancient civilization, the Germanic invasions, the foundation of feudalism and the Medieval Church, Charlemagne, and the Empire. (Given in 1926-1927 and in alternate years.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Caldwell.

35. MEDIEVAL EUROPE: CHARLEMAGNE TO THE RENAISSANCE.

A brief survey of the political history of medieval Europe and an intensive study of institutional, economic, and cultural conditions, the Empire, the Church, feudalism, the manor, the cities, the universities, and the cathedrals. *Five hours a week, winter quarter.* Credit, 1 course. Professor Caldwell.

36. THE RENAISSANCE.

Omitted in 1924-1925.

37. THE PROTESTANT REVOLT.

A study of the religious, intellectual, political, and economic aspects of the Protestant Revolt, with detailed consideration of the sixteenth century organization and criticism of the Catholic Church; the religion and dogmas of Luther, Zwingli, Calvin, Knox, and Cranmer; the influence of nationalism and absolutism on the revolution; the Catholic counter-reformation; and the establishment of state churches. *Five hours a week, fall quarter.* Credit, 1 course. Professor Higby.

39. ENGLAND IN THE NINETEENTH CENTURY.

The purpose of this course is to effect an intensive treatment of a relatively short period of English History, that from 1815 to 1915. The course will develop England's national and imperial story, her international relations, and her contributions to the history of the age. Lectures and readings. *Five hours a week, spring quarter.* Credit, 1 course. Professor Wagstaff.

40. THE FRENCH REVOLUTION.

A course which deals with the causes—political, intellectual, social, and economic—events, and results of the French Revolution. Lectures, text-books, and readings. *Five hours a week, spring quarter.* Credit, 1 course. Professor Higby.

42. THE NAPOLEONIC PERIOD.

A study of the chief events and movements of the Napoleonic period and of its immediate and permanent effects. *Five hours a week, spring quarter.* Credit, 1 course. Professor Higby.

43, 44. MODERN EUROPE.

A study of the principal political, economic, and social movements in the history of Europe since 1815. *Five hours a week, winter and spring quarters.* Credit, 1 course each. Professor Higby.

51. COLONIAL AMERICAN HISTORY.

A general survey of the English colonies in America in the 17th century; European background; territorial claims and European expansion; race elements; social, economic, and political development. Text-book, lectures, readings, and reports. *Five hours a week, fall quarter.* Credit, 1 course. Professor Connor.

52. COLONIAL AMERICAN HISTORY.

A general survey of the English colonies in America in the 18th century; imperial relations and colonial self-government; race elements; international rivalries; conquest and westward expansion; constitutional controversies: Intercolonial relations and the development of union; revolution and independence; Federal relations and the adoption of the Constitution of the United States. Text-books, lectures, readings, and reports. *Five hours a week, winter quarter.* Credit, 1 course. Professor Connor.

53. THE FEDERAL PERIOD (1783-1815).

An intensive study is made of the government under the Articles of Confederation, the formation and adoption of the Federal Constitution, the nature of the Union, the launching of the government, Jeffersonian democracy, the westward movement, and the Second War for Independence. Text-book, lectures, readings, and reports. (Alternates with History 54. Given in 1925-1926.) *Five hours a week, fall quarter.* Credit, 1 course. Professor Newsome.

54. THE ANTE-BELLUM PERIOD (1815-1860).

A social, economic, and political study of the period—the westward movement, states' rights philosophy, Jacksonian democracy, development of Nationalism, controversy over negro slavery, the rest of Southern Rights, and the causes of the stroke for Southern Independence. Text-book, lectures, readings, reports. (Alternates with History 53. Given in 1926-1927.) *Five hours a week, fall quarter.* Credit, 1 course. Professor Newsome.

55. SECESSION AND CIVIL WAR.

Beginning with a rapid survey of the states' rights theory and of the secession movement before 1860, this course deals with the important constitutional, political, and economic aspects of the Civil War in the United States. Lectures, readings, and reports. (Alternates with History 56. Given in 1926-1927.) *Five hours a week, winter quarter.* Credit, 1 course. Professor Hamilton.

56. THE RECONSTRUCTION PERIOD.

A course dealing with the constitutional, political, social, and economic aspects of the period from the close of the Civil War in 1865 to the restoration of home rule in the South in 1877. Lectures, readings, and reports. (Alternates with History 55. Given in 1925-1926.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Hamilton.

57. CONTEMPORARY AMERICAN HISTORY.

The History of the United States from 1876 to 1898. In this course emphasis will be placed upon the influence of the Civil War and Reconstruction upon subsequent American history; the war amendments in theory and practice; business and politics; the Granger movement; the currency question, the tariff legislation; the trust problem; foreign relations; the Spanish-American War and its results; party politics; political dissent, and interpretations of democracy. Lectures, text-books, and readings. (Alternates with History 58. Given in 1925-1926.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Pierson.

58. CONTEMPORARY AMERICAN HISTORY.

Continuation of History 57. A course dealing with the political, economic, social, and diplomatic history of the United States from

1898 to 1920. Conservatism, moderation, and radicalism in politics and economics; social legislation; American imperialism and increased participation in international relations; the World War and the problems of peace. Lectures, text-books, and readings. (Alternates with History 57. Given in 1926-1927.) *Five hours a week, spring quarter.* Credit, 1 course. Professor Pierson.

63-64. THE HISTORY OF THE WEST.

A study of the westward movement of civilization and the receding frontier in the area now comprising the United States from the period of exploration and settlement to the opening of the 20th Century: the conditions and processes of migration into the various areas; and the social, economic, and political significance of the frontier. Lectures, readings, discussions, reports. *Five hours a week, winter and spring quarters.* Credit, 2 courses. Professor Newsome.

Courses Primarily for Graduates

100-101-102. NORTH CAROLINA HISTORY.

A seminar course on the social, economic, and political history of the State of North Carolina. The course continues throughout the year, a weekly conference being held for the presentation of reports and discussion. *One hour a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Connor.

103-104-105. INTER-AMERICAN RELATIONS. Prerequisite, History 9-10.

A research course concerned with the diplomatic relations of the United States and the Hispanic-American countries. Some particular aspect will be selected for investigation. Lectures and reports. (Given in 1925-1926.) *One hour a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Pierson.

106-107-108. THE HISTORY OF CONGRESS.

A seminar course devoted to the history of the development of the Congress of the United States. *One hour a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Hamilton.

110-111-112. ANCIENT HISTORY.

A seminar in some phase of Ancient History. *One hour a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Caldwell.

113-114-115. MODERN EUROPEAN HISTORY.

A seminar in some phase of the Napoleonic period. *One hour a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Higby.

Government

Courses for Undergraduates

1-2. COMPARATIVE GOVERNMENT. Sophomore, Junior, and Senior elective.

In this course an intensive study will be made of the governmental and social institutions of the leading states of the modern world. The first quarter will be devoted to the treatment of the United States of America. In the second quarter the chief emphasis will

be placed upon Great Britain and France, with outline studies of the institutions of other Europeon countries. Text-books, lectures, discussions, and readings. *Five hours a week, fall and winter, winter and spring quarters.* Credit, 2 courses. Professor Hamilton.

Courses for Graduates and Advanced Undergraduates

30. THE ELEMENTS OF POLITICAL SCIENCE.

A general course in which a study is made of the principles of political science and of the important theories respecting the nature, origin, forms, and ends of the state and of government. An examination of the literature of the subject will be made, supplemented by students' reports on selected political theorists. Lectures, text-books, and readings. *Five hours a week, fall quarter.* Credit, 1 course. Professor Pierson.

34. THE CONSTITUTION OF THE UNITED STATES.

An elementary course in constitutional law, covering by means of lectures, text-book, and cases the fundamental principles of constitutional interpretation and practice in the United States. *Five hours a week, fall quarter.* Credit, 1 course. Professor Hamilton.

35. THE GOVERNMENT OF ENGLAND.

The objective in this course is a practical knowledge of the English Government as it operates, just how it came to be what it is. Local, national, and imperial aspects of England's governmental practice will receive attention. Resemblances and contrasts between her government and that of our own country will be pointed out for the practical lessons which the parallel supplies. Lectures and readings. *Five hours a week, spring quarter.* Credit, 1 course. Professor Wagstaff.

36-37. MODERN MUNICIPAL GOVERNMENT.
(Not given in 1924-1925.)

38. AMERICAN STATE GOVERNMENT.

A course dealing with the origins, development, and methods of the state governments. In connection with the course will be a special study of the government of North Carolina. *Five hours a week, spring quarter.* Credit, 1 course. Professor Connor.

Courses Primarily for Graduates

100-101-102. AMERICAN POLITICAL THEORY.

A seminar course respecting the political philosophy that has been developed in the United States. In the fall quarter the political theory of the colonial period and the American Revolution will be studied; in the winter quarter attention will be given to the theories associated with the formation of the Constitution and its early interpretation, the nature of the Union, and the slavery dispute; in the spring quarter the political theory of the Civil War and the contemporary United States will be considered. Lectures, readings, and reports. *Two hours a week, fall, winter, and spring quarters.* Credit, 2 courses. Professor Pierson.

106-107-108. MODERN INTERNATIONAL RELATIONS.
(Not given in 1925-1926.)

109. SEMINAR COURSE.

A research course in a special field under the direction of a member of the department. Credit, 1 or 2 courses.

A certificate is granted to a student who has completed with credit the equivalent of nine courses in History and Government.

DEPARTMENT OF JOURNALISM

GERALD WHITE JOHNSON, A.B., *Professor of Journalism.*

1. NEWS WRITING.
A course in elementary news writing, including practical work in the class room and outside assignments. Prerequisite for Journalism 2. *Five hours a week, fall quarter.* Credit, 1 course.

2. NEWS WRITING AND EDITING. Prerequisite, Journalism 1 or the equivalent.
A continuation of the work of Journalism 1, with the addition of some instruction in copy-reading and head-writing. Prerequisite for Journalism 3. *Five hours a week, winter quarter.* Credit, 1 course.

3. NEWS WRITING AND EDITING. Prerequisites, Journalism 1 and 2 or the equivalent.
A continuation of the work of Journalism 2, but with more emphasis on copy-reading and head-writing, and with the addition of some instruction in make-up. *Five hours a week, spring quarter.* Credit, 1 course.

10. DESK WORK.
This is a course for advanced students in the problems of deskmen and executives. It includes also practice in special article writing. *Three hours a week, fall quarter.* Credit, ½ course.

11. PUBLIC OPINION AND THE NEWS.
A study, based largely on contemporary newspapers, of prevailing methods of handling various types of news, with some attention to the theories of Walter Lippmann and others. *Three hours a week, winter quarter.* Credit, ½ course.

12. POLICY AND RELATIONS.
Comparative examination of news—as distinguished from editorial—policies of various newspapers. Study of the relation of the newspaper man to the general public. Editorial writing. *Three hours a week, spring quarter.* Credit, ½ course.

DEPARTMENT OF LATIN

See Department of Classical Languages and Literatures, p. 101.

DEPARTMENT OF MATHEMATICS

ARCHIBALD HENDERSON, Ph.D., D.C.L., LL.D., *Professor of Mathematics.*
JOHN WAYNE LASLEY, JR., Ph.D., *Professor of Pure Mathematics.*
ALLAN WILSON HOBBS, Ph.D., *Professor of Applied Mathematics.*
ARTHUR SIMEON WINSOR, A.M., *Associate Professor of Mathematics.*
*ERNEST LLOYD MACKIE, A.M., *Assistant Professor of Mathematics.*
EDWARD TANKARD BROWNE, A.M., *Assistant Professor of Mathematics.*
JOE BURTON LINKER, Ph.D., *Assistant Professor of Mathematics.*
CLAYTON CARR EDWARDS, A.B., *Instructor in Mathematics.*
SHERMAN BRYAN SMITHEY, A.B., *Instructor in Mathematics.*
MICHAEL ARENDELL HILL, JR., A.M., *Instructor in Mathematics.*
CHASE HOWARD BENSON, A.M., *Instructor in Mathematics.*

* Absent on leave, 1924-1925.

Fellows in Mathematics, 1924-1925

JOHN RAGAN ABERNETHY, A.B. VINTON ASBURY HOYLE, A.B.

Courses for Undergraduates

1. MATHEMATICAL ANALYSIS I. Required of Freshmen.

A study of functions and their graphs, the limit notion, graphical treatment of rates, mean ordinates, maximum and minimum, areas, etc.—an introduction to the notions of the differential and integral calculus. Graphical solution of equations. *Five hours a week, every quarter.* Credit, 1 course. Professors Henderson, Lasley, Browne, Linker; Messrs. Hill, Edwards, Smithey, Benson, Hoyle, Abernethy.

2. MATHEMATICAL ANALYSIS II. Required of Freshmen.

Solution of right and oblique triangles with applications. Logarithms and their application to computation. Solution of equations. Trigonometric analysis, series, permutations, combinations, complex numbers. *Five hours a week, every quarter.* Credit, 1 course. Professors Henderson, Lasley, Brown, Linker; Messrs. Hill, Edwards, Smithey, Benson, Hoyle, Abernethy.

3. ANALYTICAL GEOMETRY. Sophomore, Junior, and Senior elective. Prerequisites, Mathematics 1 and 2.

A course in the fundamentals of analytic geometry, the straight line, circle, parabola, ellipse, hyperbola, higher plane curves, transformations of coördinates, geometry of space. *Five hours a week, fall or spring quarter.* Credit, 1 course. Mr. Hill.

1E-2E-3E. UNIFIED MATHEMATICS FOR ENGINEERS. Required of Freshmen in Engineering courses and in Chemistry.

This course is designed for engineering students and deals with college algebra, trigonometry, and analytic geometry, including an introduction to the differential and integral calculus. The fundamental purpose of this course is so to coördinate these subjects as to train students to handle readily practical problems in engineering. *Six hours a week, fall, winter, and spring quarters.* Credit, 1 course each. Professors Hobbs and Winsor and Mr. Smithey.

4. DIFFERENTIAL CALCULUS. Prerequisites, Mathematics 1, 2, and 3.

A study of the differentiation process and its application to geometry, physics, and mechanics, including the notions of curvature, partial differentiation, envelopes, series, expansion of functions, etc. *Five hours a week, fall or winter quarter.* Credit, 1 course. Professors Browne and Linker.

5. INTEGRAL CALCULUS. Prerequisite, Mathematics 4.

This course centers around the idea of the definite integral, considering in detail problems arising in geometry and the physical sciences, including length of curves, areas, volumes, moment of inertia, etc. *Five hours a week, winter or spring quarter.* Credit, 1 course. Professors Browne and Linker.

4E-5E-6E. CALCULUS FOR ENGINEERING STUDENTS. Required of Sophomores in Engineering courses and in Chemistry (4E only for the latter). Prerequisite, Mathematics 3 or 3E.

The first quarter is devoted to a study of the derivative and its applications to geometry and mechanics, expansion of functions, partial

differentiation; the second deals chiefly with the definite integral and its application; the third consists of engineering problems involving calculus, together with an elementary treatment of differential equations. *Six hours a week, fall, winter, and spring quarters.* Credit, 1 course each. Professors Hobbs and Winsor and Mr. Smithey.

10. DIFFERENTIAL EQUATIONS. Prerequisite, Mathematics 5 or 5E.

This is a course both for students intending to specialize in mathematics and for students in advanced engineering, civil, electrical, and chemical. Among the subjects treated are singular solutions, applications to mechanics, geometry, and physics, linear equations with both constant and variable coefficients, equations involving more than two variables, partial differential equations, and spatial forms. *Five hours a week, fall quarter.* Credit, 1 course. Professor Henderson.

12. THEORETICAL MECHANICS. Prerequisite, Mathematics 5 or 5E.

An introductory course in mechanics employing the methods of the calculus. *Five hours a week, spring quarter.* Credit, 1 course. Professor Hobbs.

13. THEORY OF EQUATIONS. Prerequisite, Mathematics 5.

Indispensable for students intending to prosecute studies in the higher branches of pure mathematics. Such subjects as the solution of equations of higher degrees, transformations, determinants, elimination, invariants and covariants, and symmetric functions are treated in detail. The student is afforded a survey of the general problem and the basic principles of the formation, handling, and evolution of equations. *Five hours a week, winter quarter.* Credit, 1 course. Professor Henderson.

Courses for Graduates and Advanced Undergraduates

52. ELEMENTARY PROJECTIVE GEOMETRY. Prerequisite, Mathematics 5.

The fundamental notions of projective geometry: projection, section perspectivity, etc. Both analytic and geometric methods are employed. Projective correspondence, involution, and general projective relations between one dimensional forms are studied. *Five hours a week, fall quarter.* Credit, 1 course. Professor Lasley.

53. ADVANCED PROJECTIVE GEOMETRY. Prerequisite, Mathematics 52.

General homogeneous coördinates, collineation, correlation, homology, projective correspondence between two dimensional forms are studied. A projection theory of conics is developed, also the notions of line geometry. *Five hours a week, winter quarter.* Credit, 1 course. Professor Lasley.

54. ANALYTIC GEOMETRY OF SPACE. Prerequisite, Mathematics 5.

Treats of the spatial relations from the analytic standpoint. Deals with quadratic surfaces, envelopes, foci, quadri-planar and tetrahedral coördinates, developable surfaces, curves in space, curvature of surfaces, higher surfaces, etc. *Five hours a week, spring quarter.* Credit, 1 course. Professor Henderson.

56-57-58. GRAPHICAL ANALYSIS. Prerequisite, Mathematics 5 or equivalent.
A study of alignment charts and of equations determined from empirical data, with a brief treatment of the method of least squares. *Three hours a week, fall, winter, and spring quarters.* Credit, ½ course. Professor Winsor.

60. DYNAMICS. Prerequisites, Mathematics 10 and 12.
Differential equations of motion, equations of orbits, D'Alembert's principle, motion of a rigid body. *Five hours a week, fall quarter.* Credit, 1 course. Professor Hobbs.

61. VECTOR ANALYSIS. Prerequisite, Mathematics 60.
A study of some of the general principles of mechanics in the language of vectors. *Five hours a week, spring quarter.* Credit, 1 course. (Not given in 1925-1926.) Professor Hobbs.

62. FOUNDATIONS OF GEOMETRY. Prerequisite, Mathematics 52.
A course designed to meet the needs of students experienced in mathematical thinking. A survey of the contributions of Pasch, Peano, Hilbert, and their school to our knowledge of the foundations of geometry; a study of the axioms, of systems of geometry, etc. (Not given in 1925-1926.) *Five hours a week, winter quarter.* Credit, 1 course. Professor Henderson.

63. EUCLID.
A survey of the state of Greek Mathematics. Euclid and his forerunners. Euclid's contribution to the systematization of geometrical knowledge. A study of the "Elements." *Five hours a week, spring quarter.* Credit, 1 course. Professor Henderson.

70. ADVANCED DIFFERENTIAL EQUATIONS.
Linear equations with constant coefficients, with variable coefficients. Exact equations, and equations of the second order, with geometrical and physical applications. Partial differential equations, with classic types. *Five hours a week, winter quarter.* Credit, 1 course. Professor Henderson.

Courses Primarily for Graduates

101. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE. Prerequisite, Mathematics 10.
Complex numbers, differentiation and integration, conformal mapping, linear fractional transformations, single and multiple valued functions. *Five hours a week, winter quarter.* Credit, 1 course. Professor Henderson.

102. HIGHER PLANE CURVES.
A course dealing with plane curves, particularly conics; cubics and quartics; polarity, Plucker formulas, curves of Hesse, Steiner, and Cayley; classification of cubics, intersections of curves, singularities of curves, unicursal curves. *Five hours a week, spring quarter.* Credit, 1 course. Professor Lasley.

104. THEORY OF NUMBERS. Prerequisite, Mathematics 13.
An elementary course in the study of the properties of the rational integers, including the study of the question of divisibility, greatest common divisor of two or more integers, solution of simple congruences, quadratic residues, quadratic reciprocity law, representation of integers by quadratic forms, equivalence of quadratic forms, etc. *Five hours a week, fall quarter.* Credit, 1 course. (Not given in 1925-1926.) Professor Browne.

105. DIFFERENTIAL GEOMETRY. Prerequisites, Mathematics 10 and 54.

A study of the metric differential geometry of curves, surfaces, and curves on surfaces, systems of curves defined by differential equations, surfaces given by two quadratic differential forms. *Five hours a week, spring quarter.* Credit, 1 course. Professor Lasley.

106. INTRODUCTION TO THE THEORY OF RELATIVITY. Prerequisites, Mathematics 10 and 12.

In this course the essential features of the special and the general relativity theories of Einstein are set forth from the mathematical point of view. Particular study is made of the Lorentz transformation, the theory of tensors, the absolute differential calculus, and the three crucial tests of the theory. *Five hours a week, winter quarter.* Credit, 1 course. Professor Henderson.

107. ADVANCED RELATIVITY THEORY.

Restricted relativity, with applications to physical and electrical problems. General relativity and gravitation. Geodesics and curvature in space-time. Cosmological speculations as to a finite, unbounded universe. Theories of Einstein and DeSitter. *Five hours a week, spring quarter.* Credit, 1 course. Professor Henderson.

108. MODERN HIGHER ALGEBRA. Prerequisite, Mathematics 13.

Polynomials and their fundamental properties, determinants, theory of linear dependence, lineal equations, matrices, invariants, bilinear and quadratic forms. *Five hours a week, spring quarter.* Credit, 1 course. (Not given in 1925-1926.) Professor Browne.

109. ELEMENTS OF NON-EUCLIDEAN GEOMETRY. Prerequisite, Mathematics 52.

The subject is treated chronologically. The contributions of Bolyai, Lobachewsky, Riemann, Cayley, Klein are studied, analyzed, and compared. *Five hours a week, fall quarter.* Credit, 1 course. Professor Henderson.

110. ALGEBRAIC INVARIANTS.

An introduction to the non-symbolic theory of invariants of binary forms with applications to geometry, followed by an explanation of the symbolic notation of Clebsch with practice in its use. Based on Dickson's *Algebraic Invariants. Five hours a week, fall quarter.* Credit, 1 course. Professor Browne.

115. SEMINAR.

Reading and research in Mathematics conducted by members of the department.

DEPARTMENT OF MUSIC

Paul John Weaver, A.B., A.A.G.O., *Professor of Music.*
Theodore Frank Fitch, A.B., *Instructor in Music.*
Frederick Hard, A.M., *Instructor in Music.*
Lonnie Ray Sides, A.M., *Instructor in Music.*

Courses for Undergraduates

3. APPRECIATION OF MUSIC.

An illustrated course primarily for students who have had little or no music training. *Five hours a week, fall or spring quarter.* Credit, 1 course. Professor Weaver and Mr. Fitch.

4. APPRECIATION OF MUSIC.

An illustrated course following the work done in Music 3, which is prerequisite to this course. *Five hours a week, winter quarter.* Credit, 1 course. Professor Weaver and Mr. Fitch.

7-8-9. SIGHT-SINGING AND EAR-TRAINING. Junior and Senior elective.

A course in the reading of music notation, from the standpoint of both eye and ear. No prerequisites or previous training are necessary for number 7; students will be admitted to number 8 at the beginning of the winter quarter or number 9 at the beginning of the spring quarter, who have had the equivalent of the work covered in the course up to that point. Students registered for this course who become members of the University Glee Club will be allowed to count their club rehearsal time as the outside practice and preparation for this course. *Five hours a week, fall, winter, and spring quarters.* Credit, 3 courses. Mr. Fitch.

10-11-12. HISTORY OF MUSIC. Junior and Senior elective.

A study of the historical development of music. The work of each term is separate from that of the other terms, and students may enter the course at the beginning of any term. *Three hours a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Weaver.

20-21-22. HARMONY. Junior and Senior elective.

A beginner's course in elementary harmony. Prerequisite, ability to read music notation. *Three hours a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Weaver.

23-24-25. INSTRUMENTATION. Junior and Senior elective.

A course in the study of the principles and practice of instrumentation for band and orchestra, preceded by a review of harmonic principles. Orchestra and band music will be heard, analyzed, and studied, and music will be arranged for orchestra and band. Students registered for this course who become members of the University Band or the University Orchestra will be allowed to count their band or orchestra rehearsal time as the outside practice and preparation for this course. *Five hours a week, fall, winter, and spring quarters.* Credit, 3 courses. Messrs. Hard and Sides.

26-27-28. COUNTERPOINT. Junior and Senior elective.

Prerequisite, one year of harmony (courses 20, 21, and 22, or their equivalent.) *Three hours a week, fall, winter, and spring quarters* Credit, 1½ courses. Professor Weaver.

Special Courses

A. INDIVIDUAL INSTRUCTION IN PIANO.

One or more individual instruction periods a week, hour to be arranged with the instructor. Registration should be made with the instructor, not with the University Registrar. *Fee, $1.00 a lesson.* No credit. Mr. Fitch.

B. INDIVIDUAL INSTRUCTION IN VOICE.

One or more individual instruction periods a week, hour to be arranged with the instructor. Registration should be made with the instructor, not with the University Registrar. *Fee, $1.00 a lesson.* No credit. Mr. Fitch.

C. INDIVIDUAL INSTRUCTION IN VIOLIN.

One or more individual instruction periods a week, hour to be arranged with the instructor. Registration should be made with the instructor, not with the University Registrar. *Fee, $1.00 a lesson.* No credit. Mr. Hard.

D. INDIVIDUAL INSTRUCTION IN BAND INSTRUMENTS.

One or more individual instruction periods a week on any brass, wood-wind, or percussion instrument, hour to be arranged with the instructor. Registration should be made with the instructor, not with the University Registrar. *Fee, $1.00 a lesson.* No credit. Mr. Sides.

NOTE: The following regulations govern individual instruction in music courses, A, B, C, and D.

1. Practice rooms and periods are assigned by the instructor. Fee for one daily practice period, $3.00 a quarter.
2. After registration with the instructor, all fees for the quarter must be paid to the University Treasurer and receipts for such fees must be returned to the instructor before the first lesson period.
3. Regularly assigned lessons missed by the student without previous arrangement with the instructor are not to be made up or refunded for, except with the permission of the head of the department.

DEPARTMENT OF PHILOSOPHY

HENRY HORACE WILLIAMS, A.M., B.D., *Kenan Professor of Philosophy.*

PAUL ELLIOTT GREEN, A.B., *Assistant Professor of Philosophy.*

SAMUEL MCCLELLAN BUTT, A.M., *Assistant Professor of Philosophy.*

Courses for Undergraduates

1. INTRODUCTION TO PHILOSOPHY. Open to Sophomores and upper-classmen.

   This course is intended to serve as an introduction to later work in philosophy; but its main purpose is to give a general view of philosophy to those who may take no further courses in the subject. Lectures and discussion. *Five hours a week, spring quarter.* Credit, 1 course. Professor Butt.

2. THE HISTORY OF PHILOSOPHY. Open to Juniors, Seniors, and Graduates.

   Beginning with the early Greek thinkers and continuing through Medieval Philosophy. Prerequisite to Philosophy 3. *Five hours a week, fall or winter quarter.* Credit, 1 course. Fall quarter, Professor Butt; winter quarter, Professor Green.

3. THE HISTORY OF PHILOSOPHY. Open to Juniors, Seniors, and Graduates. Prerequisite, Philosophy 2.

   Modern Philosophy. *Five hours a week, winter or spring quarter.* Credit, 1 course. Winter quarter, Professor Butt; spring quarter, Professor Green.

4. PLATO AND ARISTOTLE. Open to Juniors, Seniors, and Graduates.

   An intensive study of the main works of Plato and Aristotle. *Five hours a week, spring quarter.* Credit, 1 course. Professor Green.

7-8-9. LOGIC. Open to upper-classmen.

The traditional logic will be presented; but the course aims primarily to trace the early movement of intelligence that lays the foundation of the conscious logical process. Volume I of Professor Williams' *The Evolution of Logic* will constitute an important part of the prescribed reading. Text-book and lectures. *Three hours a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Butt.

10-11-12. LOGIC.

The aim of this course is to explore the conscious logical process as expressed in civilization. *Three hours a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Williams.

13-14. ETHICS. Open to upper-classmen.

A study of moral ideas and the principles of human conduct. *Three hours a week, fall and winter quarters.* Credit, 1 course. Professor Green.

Courses for Graduates

101-102-103. THE INDIVIDUAL AND THE STATE.

A study of political theory, with special reference to the underlying metaphysics and psychology. *Three hours a week, fall, winter, and spring quarters.* Credit, 1½ courses. Professor Butt.

105-106-107. THE HISTORY OF ETHICS.

The more important theories from Plato to the present time, based upon a reading of the sources. *Three hours a week, fall, winter, and spring quarters.* Credit, 1½ courses. (To be given in 1926-1927.) Professor Butt.

140-141-142. SEMINARY IN PHILOSOPHY.

Conducted by the Department. Hours and subject are arranged at the beginning of the year.

DEPARTMENT OF PHYSICS

ANDREW HENRY PATTERSON, A.M., *Professor of Physics.*
OTTO STUHLMAN, JR., Ph.D., *Professor of Physics.*
EARLE KEITH PLYLER, Ph.D., *Assistant Professor of Physics.*
JOHN FENTON DAUGHERTY, A.B., *Instructor in Physics.*

Assistants in Physics, 1924-1925

EDGAR ATLAS FARRELL. WALTER DARE HARRELL.
ROBERT MOIR SMITH.

Courses for Undergraduates

1. GENERAL PHYSICS. PART 1. Sophomore, Junior, and Senior elective. Prerequisite, Mathematics 1-2, but may be elected in the winter quarter by Freshmen who are taking Mathematics 2, and have attained a grade of at least B in Mathematics 1.
Mechanics of solids, liquids, and gases; Sound and Heat. Lectures. Text-book, Kimball's *College Physics;* problems; laboratory work. *Six hours a week, fall or winter quarter. Laboratory fee, $2.50.* Credit, 1 course. Professors Patterson, Stuhlman, and Plyler and Mr. Daugherty.

2. GENERAL PHYSICS. PART 2. Sophomore, Junior, and Senior elective. Prerequisites, Mathematics 1-2 and Physics 1.

Light, Electricity, and Magnetism. Lectures; text-book, Kimball; problems; laboratory work. *Six hours a week, winter or spring quarter. Laboratory fee, $4.00.* Credit, 1 course. Professors Patterson, Stuhlman, and Plyler and Mr. Daugherty.

1-2-3E. PHYSICS FOR ENGINEERING STUDENTS. Required of Engineering Sophomores. Prerequisite, Mathematics 1-2-3E or equivalent.

This is a course given with special reference to the needs of students of engineering, both in the lecture work and in the laboratory, while a great deal of problem work is given on subjects dealing with engineering. *Four hours a week, fall, winter, and spring quarters. Laboratory fee, $2.50 a quarter.* Credit, 2 courses. Professors Stuhlman, and Plyler and Mr. Daugherty.

3-4. ELECTRICITY AND MAGNETISM; X-RAYS AND RADIOACTIVITY. Junior and Senior elective. Open to Sophomores by special permission. Prerequisite, Mathematics 1-2.

A general course, but intended especially for medical students. Lectures, text-book, laboratory work. *Three hours a week, fall and winter quarters.* Credit, ½ course each term. Professor Patterson.

14. ASTRONOMY. Junior and Senior elective. Prerequisite, Physics 1-2.

A general course in descriptive and historical astronomy; lectures and recitations, with use of lantern slides, star-maps, telescope, etc. *Five hours a week, fall quarter.* Credit, 1 course. Professor Patterson.

Courses for Graduates and Advanced Undergraduates

5. HEAT AND THERMODYNAMICS. Prerequisites, Physics 1-2 and Mathematics 4.

Lectures, problems, and laboratory work. *Five hours a week, winter quarter. Laboratory fee, $2.50.* Credit, 1 course. Professor Plyler.

6. MECHANICS AND WAVE MOTION. Prerequisites, Physics 1-2 and Mathematics 4.

Lectures, problems, and laboratory work. *Five hours a week, spring quarter. Laboratory fee, $2.00.* Credit, 1 course. Professor Stuhlman.

7. MODERN ELECTRICAL THEORY. Prerequisites, Physics 1-2 and Chemistry 1.

Lectures and experiments; the electron theory, atomic structure, radioactivity, etc. *Five hours a week, spring quarter.* Credit, 1 course. Professor Patterson.

8. ADVANCED ELECTRICITY AND MAGNETISM. Prerequisites, Physics 1-2 and Mathematics 4.

An introduction to the mathematical treatment of these subjects. *Five hours a week, spring quarter. Laboratory fee, $2.00.* Credit, 1 course. Professor Stuhlman.

9. OPTICS. Prerequisites, Physics 1-2 and Mathematics 4.

A treatment of the fundamental principles of geometrical and physical optics; lectures, problems, and laboratory work. *Five hours a week, fall quarter. Laboratory fee, $2.50.* Credit, 1 course. Professor Stuhlman.

10-11. INTRODUCTION TO MATHEMATICAL PHYSICS. Prerequisites, Mathematics 4 and 10 or their equivalent.

(Offered in 1926 and alternate years.) *Five hours a week, winter and spring quarters.* Credit, 2 courses. Professor Stuhlman.

12. ADVANCED GENERAL LABORATORY.

This course affords an opportunity for further training and experimental study in physics not given in other courses. *Any quarter. Two laboratory periods, of three hours each, a week. Laboratory fee, $5.00.* Credit, ½ course. Professor Stuhlman.

15-16. RESEARCH FOR SENIORS.

Credit, 1 or 2 courses. Professors Patterson, Stuhlman, and Plyler.

Courses Primarily for Graduates

115ab. ATOMIC STRUCTURE. Prerequisites, Physics 7 and Mathematics 4.

A critical survey of the experimental and theoretical evidence in various branches of physics for the present theories of the structure of atoms and molecules. A reading knowledge of German is required. *Five hours a week, fall and winter quarters.* Credit, 2 courses. Professor Patterson or Professor Stuhlman.

116. MATHEMATICAL THEORY OF ELECTRICITY AND MAGNETISM. Prerequisites, Mathematics 4 and 10.

General electrostatic theory; ideal electric fields; condensers with homogeneous and non-homogeneous dielectrics; general laws of conduction; thermal effects; magnetostatic fields; electro-magnetic phenomena; electric waves. *Five hours a week.* Credit, 1 course. Professor Stuhlman.

117. THEORY OF LIGHT. Prerequisites, Mathematics 4 and 10.

1. Geometrical optics. 2. Physical optics. 3. Optical properties of crystals and metals. 4. Magneto-optics and radiation. A reading knowledge of French and German is required. *Five hours a week.* Credit, 1 course. Professor Stuhlman.

118. THEORY OF RELATIVITY. Prerequisites, Mathematics 4 and 10.

A critical study of the experiments leading to the development of the theory of relativity; Einstein's work; study of contemporary articles on the subject. A reading knowledge of German is required. *Five hours a week.* Credit, 1 course. Professor Patterson.

119. THEORY OF HEAT. Prerequisite, Mathematics 5.

Conductivity. Kinetic theory of gases. Change of state. Thermodynamics. Radiation and temperature. *Five hours a week.* Credit, 1 course. Professor Plyler.

120. RESEARCH.

Intended for applicants for advanced degrees. Experimental work. Subject must be assigned or approved by the professor in charge. A reading knowledge of French and German is required. Professors Patterson, Stuhlman, and Plyler.

NOTE.—Courses in advanced Analytic Mechanics are offered by the Department of Mathematics.

DEPARTMENT OF PSYCHOLOGY

JOHN FREDERICK DASHIELL, Ph.D., *Professor of Psychology.*
HARRY WOLVEN CRANE, Ph.D., *Professor of Psychology.*
---------- *Associate Professor of Psychology.*
EARNEST WILLIAM ATKINS, A.M., *Instructor in Psychology.*
WILLIAM WHITE ROGERS, A.M., *Instructor in Psychology.*

Teaching Fellows in Psychology, 1924-1925

HERMON WILKES MARTIN, A.M. WILLIAM MURRAY LINKER, A.B.

Assistant in Psychology, 1924-1925

RUDOLPH SAMUEL MATTHEWS.

Courses for Undergraduates

1-2. GENERAL PSYCHOLOGY. Sophomore, Junior, and Senior elective.

The aim of the course is to present the essential phenomena of psychology, and the various methods of approach. Emphasis is placed on the organic relationships within the whole field. Lectures, textbooks, laboratory. *Six hours a week, fall and winter, or winter and spring quarters. Laboratory fee, $1.00 a quarter.* Credit, 2 courses. Professor Dashiell, Messrs. Rogers and Atkins.

Courses for Graduates and Advanced Undergraduates

22. THE PSYCHOLOGY OF LEARNING. Prerequisite, Psychology 1-2.

An analysis of human training; its nature, means, and possibilities. A reading survey will be made of the outstanding experimental work on these lines. The aim will be to get an accurate and scientific notion of the subject, with possibilities of application to various fields of applied psychology, including education and industry. Readings, discussions, experiments. *Five hours a week, spring quarter. Laboratory fee, $1.00.* Credit, 1 course. Professor Dashiell.

25. ANIMAL PSYCHOLOGY. Prerequisite, Psychology 1-2.

Development of mind in the animal. Study of behavior as analyzable into tropisms, reflexes, instincts, habits, learning capacities, etc. Comparisons between different phyla of animals and between animals and man. Texts, lectures, and experiments. *Five hours a week, winter quarter. Laboratory fee, $1.00.* Credit, 1 course. Professor Dashiell.

26. CHILD PSYCHOLOGY. Prerequisite, Psychology 1-2.

The development of behavior in the child. The chief subdivisions to be studied are the original behavior equipment, the growth and maturation of structure, the acquisition of habits, the development of capacity, and the formation of interests. Attention will be given to conflict of interests and mental hygiene. This course is the natural introduction to courses in educational psychology. Lectures, readings, and experiments with children. *Five hours a week, fall quarter. Laboratory fee, $1.50.* Credit, 1 course. Professor ———— and Mr. Atkins.

30. SOCIAL PSYCHOLOGY. Prerequsite, Psychology 1-2.

An introduction to the study of the individual in his social aspects and social behavior. The topics include social drives and habits,

language, facial expression, group and crowd phenomena, and social conflict and adjustment. The latter part of the course will apply the laws of social psychology in the fields of sociology, economics, and other social sciences. Lectures, readings, and reports of current social phenomena. *Five hours a week, fall quarter.* Credit, 1 course. Professor ————.

35. ECONOMIC PSYCHOLOGY: INDUSTRIAL AND VOCATIONAL. Prerequisite, Psychology 1-2.

There will be two main divisions of the course, as follows: (1) The adjustment of the worker to his work—including industrial training, effects of incentive, monotony, and fatigue; motion study; and mental hygiene in industry. (2) The selection of personnel for various kinds of work, with the industrial use of tests of intelligence and personality. An outline of vocational psychology will be given, and the psychology of salesmanship discussed. Lectures, experiments, readings. *Five hours a week, spring quarter. Laboratory fee, $1.50.* Credit, 1 course. Professor ———— and Mr. Atkins.

36. ECONOMIC PSYCHOLOGY: ADVERTISING. Prerequisite, Psychology 1-2.

An attempt is made to present systematically those aspects of psychology that will aid the advertiser more effectively to construct and present his advertisements. While aiming to give information of practical value, the emphasis is placed upon the establishment of a point of view that will be of assistance in the development of a general technique on the part of the advertiser. *Five hours a week, spring quarter. Laboratory fee, $2.00.* Credit, 1 course. Professor Crane.

45. ABNORMAL PSYCHOLOGY: FEEBLE-MINDEDNESS. Prerequisite, Psychology 1-2.

Presentation of the psycho-neural aspects of feeble-mindedness in general, and of the various types, together with their importance in relation to the problems of education, dependency, and delinquency. There will be discussion and demonstration of the various clinical methods of determination and classification of feeble-mindedness. (Given alternately with Psychology 47.) *Five hours a week, winter quarter. Laboratory fee, $1.00.* Credit, 1 course. Professor Crane.

46. ABNORMAL PSYCHOLOGY: PSYCHONEUROSES AND PSYCHOSES. Prerequisite, Psychology 1-2.

A study is made of the more important deviations from the normally reacting and experiencing human organism. Attention is given to the sensory, imaginal, emotional, motor, etc., abnormalities and to the occurrence of these in the various psychoses. Brief surveys are given of the methods of clinical psychology and of psychotherapy. *Five hours a week, spring quarter. Laboratory fee, $1.00.* Credit, 1 course. Professor Crane.

47. ABNORMAL PSYCHOLOGY: METHODS OF MENTAL EXAMINATION. Prerequisite, Psychology 1-2.

A presentation of the various psychological methods used in the clinical study of individuals. This includes a study of the methods used in determination of the presence or absence of specialized defects as well as the determination of level of intelligence. Lectures, experiments, readings. (Given alternately with Psychology 45.) *Five hours a week, winter quarter. Laboratory fee, $2.00.* Credit, 1 course. Professor Crane.

51-52-53. EXPERIMENTAL PROBLEMS.

To the student who finds himself especially interested in some particular problem of psychology, perhaps as growing out of the subject matter of one of the preceding courses, encouragement and opportunity are here offered for investigative study. May be elected any quarter, and for one, two, or three quarters. *Fall, winter, and spring quarters. Laboratory fee, $2.00 a quarter.* Credit, 1 course each. Professors Dashiell, Crane, and ————.

Courses Primarily for Graduates

101. ADVANCED EXPERIMENTAL PSYCHOLOGY.

A training course in the technique of psychological experimentation and research, to acquaint the student both with methods and with typical forms of apparatus. A survey will be made of the experimental study of the various motor, sensory, thinking, and emotional functions, including both introspective and behavioristic approaches. *Fall quarter. Laboratory fee, $2.00.* Credit, 1 course. Professor Dashiell.

102-103. RESEARCH IN PSYCHOLOGY. Prerequisite, Psychology 101.

Opportunity will be given for the experimental investigation of special problems along the line of the individual student's interests. The personal and material resources of the department are here especially offered. *Winter and spring quarters. Laboratory fee, $2.00 a quarter.* Credit, 1 course each. Professors Dashiell, Crane, and ————.

105. ADVANCED GENERAL PSYCHOLOGY.

An intensive study is made of the general field of psychology. Emphasis is placed upon the neural mechanism as a basis of understanding both the mental and the reaction phenomena of psychology. *Five hours a week, fall quarter.* Credit, 1 course. Professor Crane.

106. CONTEMPORARY PSYCHOLOGICAL TENDENCIES.

A more or less systematic survey of the more outstanding recent and contemporary movements in modern psychology. Readings assigned in the works of Wundt and Tichener, James, Hall, McDougall and Stout, Thorndike, Pawlow, Watson, Cannon, Freud, and Jung, and perhaps others. *Five hours a week, spring quarter.* Credit, 1 course. Professor Dashiell.

107. THE PSYCHOLOGY OF PERSONALITY.

This course defines personality as the aggregate of persistent behavior traits. The method of approach is dynamic and causal. Inheritance of capacities, dispositions, and defects, genetic development, and psychoanalytic method will be given special attention. The fundamental traits will be classified and studied by reference to case material. Types, or trait-patterns, will be discussed. Insight into the hygiene and improvement of the personality will be the practical aim of the course. Readings, discussions, analyses of cases. *Five hours a week, winter quarter.* Credit, 1 course. Professor ———— and Mr. Atkins.

The student is referred also to courses in Educational Psychology given by Professors Jordan and Trabue in the Department of Education, numbers 20, 43, 64, and 110, and in Neurology, Anatomy 6, given by Professor Mangum in the School of Medicine.

DEPARTMENT OF ROMANCE LANGUAGES

WILLIAM MORTON DEY, Ph.D., *Professor of Romance Languages.*
OLIVER TOWLES, Ph.D., *Professor of French.*
STURGIS ELLENO LEAVITT, Ph.D., *Professor of Spanish.*
HENRY DEXTER LEARNED, Ph.D., *Associate Professor of French.*
HOWARD RUSSELL HUSE, Ph.B., *Associate Professor of Romance Languages, Secretary of the Department.*
ALBERT SHAPIRO, Ph.D., *Associate Professor of Spanish.*
HERMAN HENRY STAAB, M.A., *Assistant Professor of Romance Languages.*
NICHOLSON BARNEY ADAMS, Ph.D., *Assistant Professor of Spanish.*
ROBERT IRVING LITTLE, Ph.D., *Assistant Professor of French.*
FRANK JOHN HARONIAN, M.A., *Instructor in French.*
MARTIN KAHAO BROOKS, A.M., *Instructor in Romance Languages.*
HARRY SYLVANUS VANLANDINGHAM, A.M., *Instructor in French.*
JOHN CORIDEN LYONS, A.M., *Instructor in French.*
NATHANIEL CURTIS GIDDINGS, A.M., *Instructor in Romance Languages.*
JOHN LEROY SMITH, A.M., *Instructor in French.*
PAUL FREDERIC SAINTONGE, A.B., *Instructor in French.*
STERLING AUBREY STOUDEMIRE, A.M., *Instructor in Spanish.*
JOHNSTON VANNOY MCCALL, A.B., *Instructor in Spanish.*

Teaching Fellow in Romance Languages, 1924-1925

LEWIS BELLINGER STABLER, A.B.

Assistant in French

EUGENE MOREHEAD ARMFIELD.

FRENCH

Courses for Undergraduates

1-2. ELEMENTARY COURSE.

Essentials of French Grammar. Special drill in pronunciation. It is aimed to make this course as practical as possible, with much oral work. This course may be counted for credit by those only who fulfill the requirements for the degree in two other foreign languages, and provided it is followed by French 3-4. Course 2 will be given in the fall of 1925 also. *Five hours a week, fall and winter, or winter and spring quarters.* Credit, 2 courses. Professor Learned and Messrs. Haronian, VanLandingham, Lyons, Smith, Saintonge, and Armfield.

NOTE: No student is permitted to take French 1 or 2 and Spanish 1 or 2 at the same time.

3-4. CONTINUATION OF COURSE 1-2. Freshman and Sophomore elective.

Reading of modern French literature, frequent composition, and dictation. Course 4 will be given in the fall of 1925 also. *Five hours a week, fall and winter, or winter and spring quarters.* Credit, 2 courses. Professors Huse and Staab and Messrs. Haronian, Brooks, VanLandingham, Lyons, Giddings, Smith, and Saintonge.

5. INTRODUCTION TO FRENCH LITERATURE. Sophomore, Junior, and Senior elective. Prerequisite, French 3-4.

Introduction to the study of French literature. A general survey of French literature during the 17th century, with some reference to preceding literary movements. Reading of plays of Corneille, Racine, and Molière. *Five hours a week, every quarter.* Credit, 1 course. Professors Towles, Learned, Huse, and Little and Mr. Van-Landingham.

6. MODERN FRENCH LITERATURE. Sophomore, Junior, and Senior elective. Prerequisite, French 5.

A general survey of French literature since the classical period, with special stress on the 19th century. *Five hours a week, every quarter.* Credit, 1 course. Professors Towles and Huse.

7. FRENCH CONVERSATION AND COMPOSITION. Junior and Senior elective. Prerequisite, French 5.

The object of this course is to provide students with an opportunity The object of this course is to give the student practical training subjects of general interest. Composition and outside reading. *Five hours a week, fall or spring quarter.* Credit, 1 course. Mr. Haronian.

9. COMMERCIAL FRENCH. Open to students in the School of Commerce only. Prerequisite, French 5.

The object of this course is to give the student practical training in modern French. Newspaper and magazine articles dealing with the life and customs of the country will be read. Practice in social and commercial correspondence. This course will be largely conducted in French. *Five hours a week, fall or spring quarter.* Credit, 1 course. Professor Staab.

Courses for Graduates and Advanced Undergraduates

11. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY. Prerequisite, French 6.

A study of French classicism with special reference to the drama. Plays of Corneille, Molière, and Racine. *Five hours a week, fall quarter.* Credit, 1 course. Professor Little.

12. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY. Prerequisite, French 6.

This course will deal particularly with non-dramatic literature. Malherbe, Descartes, Pascal, Boileau, Bossuet, La Fontaine, and La Bruyère. *Five hours a week, winter quarter.* Credit, 1 course. Professor Towles.

13. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY. Prerequisite, French 6.

Voltaire, Montesquieu, Rousseau, les Encyclopédistes. A study of the literary movement of the century and of the origins of romanticism. *Five hours a week, fall quarter.* Credit, 1 course. Professor Huse.

14. FRENCH PHONETICS. Prerequisite, French 5.

A detailed study of the French vowel and consonant sounds by the phonetic method. This course is required of candidates for the master's degree, and it should be elected by anyone who intends to teach French. *Five hours a week, fall quarter.* Credit, 1 course. Professor Dey.

15. THE FRENCH ROMANTIC MOVEMENT. Prerequisite, French 6. French literature from 1800 to 1850, with special stress on the works of the romantic poets, Lamartine, Hugo, Vigny, and Musset. Lectures, reading, reports. *Five hours a week, fall quarter.* Credit, 1 course. Professor Dey.

16. FRENCH LITERATURE SINCE 1850. Prerequisite, French 6. A study of the later literary movements of the 19th century, with some emphasis on the contemporary period. Lectures, readings, reports. *Five hours a week, winter quarter.* Credit, 1 course. Professor Dey.

18. FRENCH DRAMA. Prerequisite, French 6. A rapid survey of the French drama from the beginning to the 19th century. *Five hours a week, winter quarter.* Credit, 1 course. Professor Little.

19. THE FRENCH NOVEL. Prerequisite, French 6. A study of the development of the novel in France. Lectures, reading, reports. (Given in 1926-1927 and in alternate years.) *Five hours a week, winter quarter.* Credit, 1 course. Professor Dey.

24. FRENCH POETRY. Prerequisite, French 6. A study of French lyric poetry, begining with Villon. Lectures, reading, reports. *Five hours a week, spring quarter.* Credit, 1 course. Professor Huse.

Courses Primarily for Graduates

101. STUDIES IN ROMANTICISM. Prerequisite, French 15. Intensive study of one of the romantic poets. (Given in 1925-1926 and in alternate years.) *Five hours a week, winter quarter.* Credit, 1 course. Professor Dey.

105-106. THE SIXTEENTH CENTURY. A study of the French Renaissance. Italian and French Humanism. The reformation. Marot, Rabelais, Calvin, the Pléiade, Montaigne *Five hours a week, winter and spring quarters.* Credit, 2 courses Professor Towles.

121abc. OLD FRENCH. Reading of the oldest texts: La Chanson de Roland; Aucassin et Nicolette; Chrétien de Troyes. Lectures on French Phonology and Morphology. *Three hours a week, fall, winter, and spring quarters.* Credit, 2 courses. Professor Learned.

125. PROVENCAL. A study of the ancient language and literature of Provence. The poetry of the Troubadours. (Given in 1926-1927 and in alternate years). *Five hours a week, spring quarter.* Credit, 1 course. Professor Dey.

131. INTRODUCTION TO LINGUISTIC SCIENCE. Vowel measurements. Phonetic alphabets. Special attention to the pronunciation of French. *Spring quarter.* Credit, 1 course. Professor Dey.

141. RESEARCH. Research in a special field under the direction of a member of the department.

SPANISH

Courses for Undergraduates

1-2. ELEMENTARY COURSE.

Essentials of Spanish grammar. Special drill in pronunciation. Reading of selected texts, with much oral drill. This course may be counted for credit by those only who fulfill the requirements for the degree in two other foreign languages, and provided it is followed by Spanish 3-4. Course 2 will be given in the fall of 1925 also. *Five hours a week, fall and winter, or winter and spring quarters.* Credit, 2 courses. Professors Shapiro and Staab and Messrs. Stoudemire and McCall.

NOTE: No student is permitted to take Spanish 1 or 2 and French 1 or 2 at the same time.

3-4. CONTINUATION OF COURSE 1-2. Freshman and Sophomore elective. Prerequisite, Spanish 1-2.

Reading of modern Spanish literature, composition, and dictation. Course 4 will be given in the fall of 1925 also. *Five hours a week, fall and winter, or winter and spring quarters.* Credit, 2 courses. Professors Staab and Adams and Messrs. Stoudemire and Giddings.

5. INTRODUCTION TO SPANISH LITERATURE. Sophomore, Junior, and Senior elective. Prerequisite, Spanish 3-4.

Introduction to the study of Spanish literature. A general survey of Spanish literature during the 16th and 17th centuries, with some reference to preceding literary movements. Reading of selections from Lope de Vega, Cervantes, Calderon, etc. *Five hours a week, every quarter.* Credit, 1 course. Professors Leavitt and Adams.

6. MODERN SPANISH LITERATURE. Sophomore, Junior, and Senior elective. Prerequisite, Spanish 5.

A general survey of Spanish literature since the classical period, with special stress on the 19th century. *Five hours a week, every quarter.* Credit, 1 course. Professors Leavitt and Shapiro.

8. TEACHERS' COURSE. Junior and Senior elective. Prerequisite, Spanish 5.

General course in Spanish phonetics. Discussion of teachers' problems. This course should be elected by those who intend to teach Spanish. *Three hours a week, spring quarter.* Credit, ½ course. Professor Shapiro.

9. COMMERCIAL SPANISH. Open to students in the School of Commerce only. Prerequisite, Spanish 5.

The object of this course is to give the student practical training in modern Spanish. Newspapers and magazine articles dealing with the life and customs of South America will be read. Practice in social and commercial correspondence. This course will be largely conducted in Spanish. *Five hours a week, spring quarter.* Credit, 1 course. Professor Leavitt.

Courses for Graduates and Advanced Undergraduates

11-12. SPANISH DRAMA OF THE SIGLO DE ORO. Prerequisite, Spanish 6.

Earlier dramatists, representative plays of Lope de Vega, Tirso de Molina, Calderón, Ruiz de Alarcón, etc. Lectures and reports. (Given in 1925-1926 and in alternate years). *Five hours a week, fall and winter quarters.* Credit, 2 courses. Professor Leavitt.

17. SPANISH DRAMA OF THE NINETEENTH CENTURY. Prerequisite, Spanish 6.

Reading of representative plays of this period. Lectures, oral and written reports. (Given in 1926-1927 and in alternate years). *Five hours a week, fall quarter.* Credit 1 course. Professor Leavitt.

18. MODERN SPANISH DRAMA. Prerequisite, Spanish 6.

Reading of plays of Dicenta, Benavente, Linares Rivas, the Alvarez Quintero brothers, Marquina, Martinez Sierra, etc. Lectures, oral and written reports. (Given in 1926-1927 and in alternate years.) *Five hours a week, winter quarter.* Credit, 1 course. Professor Leavitt.

19-20. THE SPANISH NOVEL.

A study of the development of the novel in Spain. *Five hours a week, fall and winter quarters.* Credit, 2 courses. Professor Adams.

21. MODERN SPANISH NOVELISTS.

Consideration of present tendencies and intensive study of one representative author. *Fve hours a week, spring quarter.* Credit, 1 course. Professor Adams.

Courses Primarily for Graduates

121-122. EARLY SPANISH.

Ford's *Old Spanish Readings.* The Poem of the Cid. Spanish literature to the sixteenth century. *Five hours a week, fall and winter quarters.* Credit, 2 courses. Professor Shapiro.

123. EARLY SPANISH LITERATURE. Prerequisite. Spanish 121-122.

Seminar course. Intensive study of one representative author of this period. *Five hours a week, spring quarter.* Credit, 1 course. Professor Shapiro.

131-132. INTRODUCTION TO SPANISH-AMERICAN LITERATURE.

A study of notable authors and consideration of present-day writers. *Five hours a week, two quarters.* Credit, 2 courses. Professor Leavitt.

141. RESEARCH.

Research in a special field under the direction of a member of the department.

ITALIAN

Courses for Undergraduates

1. ELEMENTARY COURSE. Junior and Senior elective. Prerequisite, French 3-4 or Spanish 3-4.

Grammar, pronunciation, oral and written exercises. Reading of modern Italian texts. *Five hours a week, winter quarter.* Credit, 1 course. Professor Huse.

2. MODERN ITALIAN LITERATURE. Junior and Senior elective. Prerequisite, Italian 1.

Continuation of course 1 with readings from modern Italian poets, dramatists, and novelists. *Five hours a week, spring quarter.* Credit, 1 course. Professor Huse.

Courses for Graduates and Advanced Undergraduates

11. ITALIAN LITERATURE OF THE RENAISSANCE. Prerequisite, Italian 1 and 2.

Reading from the principle authors, with special emphasis on Ariosto, Machiavelli, Castiglione, and the lyric poets. Collateral reading on the history of Italian culture during the Renaissance. *Five hours a week.* Credit, 1 course. Professor Huse.

DEPARTMENT OF RURAL SOCIAL ECONOMICS

Eugene Cunningham Branson, A.M., Litt.D., *Kenan Professor of Rural Social-Economics.*

Samuel Huntington Hobbs, Jr., A.M., *Associate Professor of Rural Economics and Sociology.*

Edgar Tristram Thompson, A.M., *Instructor in Rural Economics and Sociology.*

Courses for Undergraduates

1-2-3. FORMAL COURSE IN RURAL ECONOMICS. Junior and Senior elective. Prerequisite or corequisite, Economics 1-2.

A background for defining and interpreting the economic problems of country life in North Carolina: Carver's *Principles of Rural Economics.* References: Nourse's *Readings in Agricultural Economics,* Carver's *Selected Readings in Rural Economics. Five hours a week, fall, winter, and spring quarters.* Credit, 3 courses. Professor Hobbs.

5-6-7. CONSTRUCTIVE STUDIES IN RURAL SOCIOLOGY. Junior and Senior elective. Prerequisite or corequisite, General Sociology 1.

Gillette's *Rural Sociology.* References: Galpin's *Rural Life;* Vogt's *Introduction to Rural Sociology;* Fiske's *Challenge of the Country;* Wilson's *Evolution of the Country Community, Sociology of Rural Life,* Proceedings of the American Sociological Society, Vol. IX, 1916; Phelan's *Readings in Rural Sociology;* Sim's *The Rural Community. Five hours a week, fall, winter, and spring quarters.* Credit, 3 courses. Professor Branson.

9-10-11. LABORATORY COURSE IN RURAL ECONOMICS AND SOCIOLOGY. Junior and Senior elective. Corequisite, 1-2-3 or 5-6-7.

Home-State studies, research work, and surveys. *Five hours a week, fall, winter, and spring quarters.* Credit, 3 courses. Mr. Thompson and Professors Branson and Hobbs.

12-13-14. THE COUNTY. Junior and Senior elective. Corequisite: courses 1-2-3 or 5-6-7.

Studies in the economic and social conditions of the Home County with a view to the publication of a county survey. Arranged especially to meet the needs of county organizations at the University. *Nine hours laboratory and one hour seminar a week, fall, winter and spring quarters.* Credit 3 courses. Mr. Thompson.

20. LECTURE AND RESEARCH COURSE ON NORTH CAROLINA. Junior and Senior elective.

This course is designed to familiarize the student with North Carolina: population, agriculture, resources, social life, economic development, industry. *Five hours a week, fall quarter.* Credit, 1 course Professor Hobbs.

21. AGRICULTURAL CO-OPERATION. Junior and Senior elective. Lecture and research. History of agricultural coöperation, principles of coöperation, coöperative organizations, rural credits, and coöperative marketing. *Five hours a week, winter quarter.* Credit, 1 course. Professor Hobbs.

22. RURAL LEADERSHIP. Junior and Senior elective. An analysis of the basis and personal aspects of leadership. The opportunities and possibilities of leadership under country conditions. *Three hours a week, winter quarter.* Credit, ½ course. Mr. Thompson.

Courses for Graduates

105abc. RURAL SOCIAL PROBLEMS, AGENCIES, AND INSTITUTIONS. Research projects directed by Professor Branson.

113abc. RURAL ECONOMICS. Research, seminars, and field investigations in (1) land economics—resources, values, ownership and tenancy, laws and policies; (2) farm organization and management—farm systems, farm finance, distribution of farm products and the farm income, coöperative farm enterprise; (3) country wealth, country institutions and problems; (4) state and county studies, economic, social, and civic; county bulletins, etc. Required preliminary preparation: approved courses in general and rural economics. Lacking such preparation, collateral courses in these subjects must be taken in residence here. *Five hours a week, fall, winter, and spring quarters.* Credit, 3 courses. Professors Branson and Hobbs.

117abc. RURAL SOCIAL PROBLEMS. 1. Research, seminars, and field investigations of (1) rural social institutions and agencies, (2) transportation and communication facilities in rural areas, (3) country-mindedness and its sequences, (4) town and country interdependencies, (5) social disability in country areas, our public welfare laws and agencies, (6) social aspects of tenancy and illiteracy, (7) state and county studies, economic, social, and civic; county bulletins, etc. 2. Rural Social Surveys; research, technic, and field work. 3. Statistics; interpretation and use. 4. Rural Social Engineering: (1) county community studies; (2) community organization, economic and social; (3) county government; (4) country leadership, requisites and technic. Required preliminary preparation, approved courses in general and rural sociology. Lacking this, collateral courses in these subjects must be taken in residence here. *Five hours a week, fall, winter, and spring quarters.* Credit, 3 courses. Professors Branson and Hobbs.

DEPARTMENT OF SOCIOLOGY

HOWARD WASHINGTON ODUM, Ph.D., *Kenan Professor of Sociology.*
JESSE FREDERICK STEINER, Ph.D., *Professor of Social Technology.*
HAROLD DIEDRICH MEYER, A.M., *Associate Professor of Sociology.*
*WILEY BRITTON SANDERS, A.M., *Assistant Professor of Sociology and Supervisor of Family Case Work.*

Teaching Fellow, 1924-1925

COYLE ELLIS MOORE, B.S

* Absent on leave, 1924-1925.

Courses for Undergraduates

1. INTRODUCTION TO SOCIOLOGY. Sophomore, Junior, and Senior elective.

   A course in the elements of social theory and its application to modern social problems and relations to other social sciences. Study and analysis of such factors as population, institutions, social movements, social structure, and social organization for the purpose of giving the student a working knowledge of the nature of society. *Five hours a week, every quarter.* Credit, 1 course. Professor Meyer.

2. PRINCIPLES OF SOCIOLOGY. Junior and Senior elective.

   A study of the fundamental concepts of sociology with special reference to their application to the problems of collective behavior. Among the topics discussed are human nature, isolation, social contacts, social interaction, social forces, conflict, accommodation, social control, and social progress. *Five hours a week, winter or spring quarter.* Credit, 1 course. Professor Steiner.

3. STATISTICS AND STATISTICAL METHODS. Junior and Senior elective.

   A brief survey of the field of theoretical statistics, with a thorough mastery of the elements of numbering, averages, modes, medians, variations, and scientific principles involved. Special emphasis will be placed upon practical methods of utilizing statistics, the recognition of facts, gathering data, compiling, plotting, conclusions, and the special application of statistics to social phenomena. *Five hours a week, winter quarter.* Credit, 1 course. Professor Odum.

4. EDUCATIONAL SOCIOLOGY. Junior and Senior elective.

   Standards of measurement of progress. Survey of sociological principles involved in their applications in education, politics, government, social work. The effective use of sociology in directing and controlling group progress, social institutions, democracy, and in the development of the total social personality of the individual. The coördination of institutional modes of activity and the enrichment, through coöperation, of social organization. *Five hours a week, spring quarter.* Credit, 1 course. Professor Odum.

5. NEGRO PROBLEMS.

   A study of the race problems of the South, with consideration of the history, economic and social status, and future of the negro. Standards of measurement for race progress; race relationships; the specific problems of the here and now of southern race relations. Seminar course. *Three hours a week, fall quarter.* Credit, ½ course. Professor Odum.

6. PROBLEMS OF IMMIGRATION.

   The essential problems of immigration in this country—history and analysis of immigration—restriction—adaptation—Americanization—Special problems of immigration in relation to industrial and social unrest and development. *Three hours a week, winter quarter.* Credit, ½ course. Professor Steiner.

7. PROBLEMS OF THE SMALL TOWN AND MILL VILLAGE.

   The romance of the small town—its place in the American commonwealth—relationship to this state—town planning—the mill village: its social and industrial problems—special studies of selected towns. *Three hours a week, spring quarter.* Credit, ½ course. Professor Odum.

8. PRINCIPLES OF COMMUNITY ORGANIZATION.

A consideration of the social theories that underlie the modern community movement; a critical review of the rôle of custom, habit, crisis, and gregariousness in community development. Special attention is given to the place of the crowd spirit in community work and to effective means of achieving community solidarity. An evaluation of community forces with a view to discovering the principles involved in their organization and coördination. *Three hours a week, winter quarter.* Credit, ½ course. Professor Steiner.

9. ADMINISTRATION OF COMMUNITY WORK.

A general survey of typical experiments in community organization; development and coördination of community activities illustrated by case records; a comparative study of methods of administration with special attention to problems of central financing of social agencies; qualification for leadership in community work. *Three hours a week, spring quarter.* Credit, ½ course. Professor Steiner.

10. THE STUDY OF SOCIAL PROBLEMS. Sophomore, Junior, and Senior elective.

The study of Modern Social Problems. Part I. The individual in relation to society. Part II. The Modern Problems, classified in accordance with the six major social institutions. Part III. Democracy, Public Welfare, and Social Progress. *Five hours a week, every quarter.* Credit, 1 course. Professor Meyer.

11. THE FAMILY.

Early forms of the family in primitive society; its historical development during Greek, Roman, and Mediaeval periods. The modern family and its problems. *Three hours a week, fall quarter.* Credit, ½ course. Professor Steiner.

12. CRIME AND ITS SOCIAL TREATMENT.

Nature and causes of crime; evolution of modern methods of criminal procedure; administration of penal and reformatory institutions; programs for the social treatment of the criminal; the problems of juvenile delinquency. *Three hours a week, winter quarter.* Credit, ½ course. Professor Steiner.

13. SOCIAL PATHOLOGY.

A study of the abnormal and pathological aspects of social life: problems of dependency and degeneracy, and methods of care and treatment of dependent and defective classes. *Three hours a week, spring quarter.* Credit, ½ course. Professor Steiner.

14. FAMILY CASE WORK.

Discussion of the relation of the individual to the family and the family to the community. The technique of case work and its scientific approach—methods of investigation, interviewing, social evidence, sources, diagnosis, treatment. *Five hours a week, fall or spring quarter.* Credit, 1 course. Professor Sanders.

15. ADVANCED FAMILY CASE WORK.

A continuation of Sociology 14, devoted to a more extensive discussion of case work methods and their application, with special reference to different types of problems. Discussion of agencies, public and private, dealing with case problems. Wider implications of case work are given consideration together with legislation affecting the case work field. *Five hours a week, fall or spring quarter.* Credit, 1 course. Professor Sanders.

20. THE PRINCIPLES OF FIELD WORK.

The study and demonstration of field work as a standard laboratory course in social science. Fourteen hours a week required of all who major in community work. *Three hours a week, fall quarter.* Credit, ½ course. Professor Sanders.

21. FIELD WORK AND COMMUNITY SURVEYS.

Plannng for community recreation. Special days—Special programs for communities—map-drawing and surveys—Community Fairs. *Three hours a week, winter quarter.* Credit, ½ course. Professor Meyer.

22. COMMUNITY SURVEYS.

Planning and organizing surveys. Making survey schedules. Tabulating statistical information. Interpreting results. Publishing information obtained. The students will be expected to participate in the survey of a local community. *Three hours a week, winter quarter.* Credit, ½ course. Professor Steiner.

24. THE PHILOSOPHY OF PLAY.

A study of the play instincts—the relation of play to physical growth, to mental, social, and moral development—theories of play—social significance in modern times. To be taken with Sociology 20, 21. *Three hours a week, spring quarter.* Credit, ½ course. Professor Meyer.

27. STANDARDS OF CHILD WELFARE.

The minimum standards of child welfare. Analysis of the problems of today and of current conditions. The study of stated community and legislative remedies; the study of special forms of child welfare—baby saving and infant welfare movements; child institutes; dependent and delinquent childhood. *Three hours a week, winter quarter.* Credit, ½ course. Professor Sanders.

28. JUVENILE DELINQUENCY.

A study of the problems of juvenile delinquency together with modern methods of treatment. The Juvenile Court, methods of probation, the visiting teacher. *Three hours a week, spring quarter.* Credit, ½ course. Professor Sanders.

Courses Primarily for Graduates

121. THE PRINCIPLES OF SOCIOLOGY.

A graduate seminar in the study of advanced social theory and research into some special social problems. *Five hours a week, fall quarter.* Credit, 1 course. Professor Odum.

122. EDUCATIONAL SOCIOLOGY.

An advanced course in the study of scientific programs of social progress. Objective measurement of social influences and social groups. Research into some specific problem relating to one of the larger institutions. *Five hours a week, winter or summer quarter.* Credit, 1 course. Professor Odum.

123. HISTORICAL SOCIOLOGY.

A study of the leading social theorists and their contribution to human thought and welfare. Research into the theories of some selected writer. *Five hours a week, spring quarter.* Credit, 1 course. Professor Odum.

124. POVERTY AND RELIEF.
A research seminar on the social treatment of the dependent in society. One special topic selected for research, as the County Home. *Five hours a week, fall quarter.* Credit, 1 course. Professor Steiner.

125. NATIONAL AGENCIES FOR PUBLIC SERVICE.
A graduate seminar in the study of state and national agencies, public and private, for the administration of relief. *Five hours a week, winter quarter.* Credit, 1 course. Professor Steiner.

126. COMMUNITY ORGANIZATION.
An advanced course following Sociology 8. Intensive study of special movements and new theory and practice in community organization and leadership. *Five hours a week, spring quarter.* Credit, 1 course. Professor Steiner.

127. GRADUATE RESEARCH SEMINAR.
Research in selected topics. *Fall quarter.* Credit, 1 course. Professor Odum.

128. GRADUATE RESEARCH SEMINAR.
Research in selected topics. *Winter quarter.* Credit, 1 course. Professor Odum.

129. GRADUATE RESEARCH SEMINAR.
Research in selected topics. *Spring quarter.* Credit, 1 course. Professor Odum.

130. GRADUATE RESEARCH SEMINAR.
Research in special topics. *Fall quarter.* Credit, 1 course. Professor Steiner.

131. GRADUATE RESEARCH SEMINAR.
Research in selected topics. *Winter quarter.* Credit, 1 course. Professor Steiner.

132. GRADUATE RESEARCH SEMINAR.
Research in special topics. *Spring quarter.* Credit, 1 course. Professor Steiner.

DEPARTMENT OF ZOOLOGY

HENRY VANPETERS WILSON, Ph.D., *Kenan Professor of Zoology.*
ROBERT ERVIN COKER, Ph.D., *Professor of Zoology.*

Teaching Fellow in Zoology, 1924-1925

JAMES THEOPHILUS PENNEY, A.B.

Assistants in Zoology, 1924-1925

JOHN MICKLE BREWER.
JOY VERLE SYKES.
ROBERT HERRING WRIGHT, JR.

Courses for Undergraduates

1 (a). FUNDAMENTALS OF ANIMAL BIOLOGY. Sophomore, Junior, and Senior elective. Required accompanying course, Zoology 1 (b).

Elements of anatomy, physiology, and classification of animals. Lectures. *Three hours a week, fall or winter quarter.* Credit, ½ course. Professor Coker.

1 (b). PRACTICAL STUDIES IN ANIMAL BIOLOGY. Sophomore, Junior, and Senior elective. Required accompanying course, Zoology 1 (a).

Dissection of animals and study of tissues, to give foundation for an understanding of the organization and functions of vertebrate animals and especially of man. Two laboratory exercises and one lecture each week. *Three hours a week, fall or winter quarter. Laboratory fee, $5.00.* Credit, ½ course. Professor Coker and Assistants.

2 (a). DEVELOPMENT OF ANIMALS. Sophomore, Junior, and Senior elective. Prerequisite, Zoology 1 ab.

Basic facts and theories of individual development, heredity, and evolution. Lectures. *Three hours a week, spring quarter.* Credit, ½ course. Professor Wilson.

2 (b). INVERTEBRATE ZOOLOGY. Sophomore, Junior, and Senior elective. Prerequisite, Zoology 1 ab.

Study of invertebrate animals as examples of the varied forms of life and as concrete illustrations of the principles of biology. Field trips are made for the purpose of observing animals in nature. Two laboratory exercises, including field trips, and one lecture each week. *Three hours a week, spring quarter. Laboratory fee, $5.00.* Credit, ½ course. Professor Coker and Assistants.

Courses for Graduates and Advanced Undergraduates

3. COMPARATIVE ANATOMY OF VERTEBRATES. Prerequisite, Zoology 1 ab. (Zoology 2 ab strongly recommended).

Dissection of types, especially amphioxus, petromyzon, fish, fowl, rabbit. Laboratory work with occasional lectures. *Five hours a week, fall quarter. Laboratory fee, $5.00.* Credit, 1 course. Professor Wilson.

4. COMPARATIVE EMBRYOLOGY OF VERTEBRATES. Prerequisites, Zoology 1 ab and 2 ab, or 1 ab and 3.

Maturation and fertilization phenomena in some invertebrate types; segmentation and formation of germ layers in frog and teleost fish; germ layers and development of characteristic vertebrate organs in chick; essentials of microscopic technique. Laboratory work with occasional lectures. *Five hours a week, winter quarter. Laboratory fee, $5.00.* Credit, 1 course. Professor Wilson.

5. COMPARATIVE HISTOLOGY OF VERTEBRATES. Prerequisite, Zoology 4.

Microscopic preparation of selected tissues and organs are made from the fresh animal and studied with the help of texts. Laboratory work with assigned reading. *Five hours a week, spring quarter. Laboratory fee, $5.00.* Credit, 1 course. Professor Wilson.

6-7-8. MORPHOLOGY AND CLASSIFICATION OF THE INVERTEBRATES. Prerequisite, Zoology 1 ab and 2 ab.

Dissection and microscopic study of types of the chief orders, with some consideration of life histories; systematic diagnosis. Laboratory work with occasional lectures. *Three hours a week, fall, winter, and spring quarters. Laboratory fee, $3.00 a quarter.* Credit, 1½ courses. Professor Wilson.

9. HYDROBIOLOGY. Junior and Senior elective. Prerequisite, Zoology 2 (b).

A study of animal life in ponds and streams, with special reference to the relation of animals to each other and to their environments. Field and laboratory work, lectures, reading of special papers, discussions. *Five hours a week, fall or spring quarter. Laboratory fee, $5.00.* Credit, 1 course. Professor Coker.

Courses Primarily for Graduates

109-110-111. GENERAL EMBRYOLOGY AND REGENERATION.

Embryology and Regeneration in the lower metazoa and simpler vertebrates. *Not less than five hours a week, fall, winter, and spring quarters. Laboratory fee, $5.00 a quarter.* Credit, 3 or more courses. Professor Wilson.

112. RESEARCH UNDER DIRECTION.

Designed especially for candidates for the Master's Degree. *Three or five hours a week, spring quarter. Laboratory fee, $3.00 or $5.00.* Credit, ½ or 1 course. Professor Wilson or Professor Coker.

PART FOUR

THE COLLEGE OF LIBERAL ARTS
THE SCHOOL OF APPLIED SCIENCE
THE SCHOOL OF ENGINEERING
THE SCHOOL OF EDUCATION
THE SCHOOL OF COMMERCE
THE SCHOOL OF PUBLIC WELFARE
THE GRADUATE SCHOOL
THE SUMMER SCHOOL
THE UNIVERSITY EXTENSION DIVISION

THE COLLEGE OF LIBERAL ARTS

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*
JAMES FINCH ROYSTER, Ph.D., *Dean.*

THE ADMINISTRATIVE BOARD

*GEORGE HOWE, Ph.D., *Professor of the Latin Language and Literature.*

JOSEPH GREGOIRE DEROULHAC HAMILTON, Ph.D., *Kenan Professor of History and Government.*

WALTER DALLAM TOY, M.A., *Professor of the Germanic Languages and Literatures.*

WILLIAM FREDERICK PROUTY, Ph.D., *Professor of Stratigraphic Geology.*

EDGAR WALLACE KNIGHT, Ph.D., *Professor of Rural Education.*

ARCHIBALD HENDERSON, Ph.D., D.C.L., LL.D., *Professor of Mathematics.*

HOWARD RUSSELL HUSE, Ph.B., *Associate Professor of Romance Languages.*

CORYDON PERRY SPRUILL, JR., A.B., B.Litt., *Assistant Professor of Economics.*

REQUIREMENTS FOR ADMISSION

See page 46.

EXPENSES

See page 55.

* Absent on leave, 1924-1925.

COURSE LEADING TO THE DEGREE OF BACHELOR OF ARTS

The course leading to the degree of Bachelor of Arts is designed to provide a general, well-rounded, liberal education.

In order to be recommended for the degree a student must pass satisfactory examinations in thirty-six whole courses including the prescribed subjects listed below and elective subjects in accordance with the requirements stated. Attention is called to the course in Humanities, the course leading to A.B. in Journalism, and to the work outlined for Degrees with Distinction.

A whole course consists of five or six class periods a week for one quarter. A half course consists of three class periods a week for one quarter. Two half courses are equivalent to one whole course. Each class period pre-supposes two hours of preparation or the equivalent in laboratory work.

In the first two years the student pursues a more or less definite curriculum in the following subjects:

English,	three courses
Foreign Languages,	three courses in each of two languages
History,	two courses
Mathematics,	two courses
Science,	two courses
Elective,	two courses

Beginning with the Junior year the work is on an elective basis, providing what is deemed a proper amount of concentration in study and, at the same time, a certain distribution of subjects.

Students who expect at some time to carry out investigation in any science or scientific profession, such as medicine or engineering, are earnestly recommended to enter upon their Senior year with a reading knowledge of German and French. Class work in these subjects should have included at least four courses in German and two in French.

Freshman Year

English 1
Mathematics 1-2
History 1-2

* Select two groups:

- Greek 1-2 or Greek 3-4**
- Latin 1-2
- French 3-4
- German 1-2 or German 3-4***
- Spanish 3-4

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* The languages in which the student presented high school credit are to be continued here.

** Greek 3-4 is to be taken if the equivalent of Greek 1-2 has been offered at entrance. Note that Greek through course 5 is required to complete the Sophomore requirement in this language.

*** German 3-4 is to be taken if the equivalent of German 1-2 has been offered at entrance. Note that German 3-4 and an additional course are required to complete the Sophomore requirement in this language.

By postponement of any one of these double courses until the Sophomore year, a double course in Science (Botany 1, 2; Chemistry 1-2; Zoölogy 1, 2; Geology 1-2) may be taken in the Freshman year.

Not more than three courses may be taken in any one term except by special permission of the Administrative Board.

Sophomore Year

Select one:
- English 3-4
- Botany 1, 2
- Chemistry 1-2
- Physics 1, 2
- Zoölogy 1, 2
- Botany 1 and Zoölogy 1
- Geology 1-2

* Select two languages:
- Greek 3-4 or Greek 5**
- Latin 3
- French 5
- German 21***
- Spanish 5

Elective, 3 Courses (see below)

†Sophomore Electives

Botany 1, 2
Chemistry 1-2
Economics 1-2, 5
English 4 or 5, 13-14-15, 16-17-18, 20, 37, 38, 51, 55, 59, 66
French 3-4, 5, 6
Geology 1-2
German 3-4, 21, 22, 23, 25-26
Greek 3-4, 5, 6, 7
Government 1-2
History 3-4, 7-8, 9, 10, 11, 12
Latin 3, 4, 5, 6, 10
Mathematics 3, 4, 5
Physics 1, 2
Psychology 1-2
Zoölogy 1, 2
Sociology 1, 10
Spanish 3-4, 5, 6

If a course in Science has been taken in the Freshman year, the Freshman course then postponed must be taken in place of the course in Science required of Sophomores.

Not more than three courses may be taken in any one term except by special permission of the Administrative Board. In case permission for extra work has been granted, a mid-term report of "X" on any course will necessitate the dropping of that course.

SYSTEM OF ELECTIVES

For the purpose of providing for the required concentration and distribution of electives in the Junior and Senior years, the various departments of the College are grouped under three general divisions, as follows:

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* The two languages selected in the Freshman year are to be continued in the Sophomore year.

** Greek 5 is to be taken if the equivalent of Greek 1-2 has been offered at entrance. Note that Greek through course 5 is required to complete the Sophomore requirement in this language.

*** German 23 or 25 may be substituted.

† The three elective courses must be chosen from this list and cannot be courses used by the student to meet any other requirement.

DIVISION I. *Language and Literature.*

Classical Languages	**German**
Comparative Literature	**Romance Languages**
English	

DIVISION II. *Philosophy, Political and Social Sciences.*

Economics	**History and Government**
Rural Social-Economics	**Philosophy**
Education	**Sociology**

DIVISION III. *Mathematics, Natural Sciences, Psychology.*

Botany	**Physics**
Chemistry	**Psychology**
Geology	**Zoology**
Mathematics	

Junior Year

Not later than May 15 of his Sophomore year each student shall hand in to the Registrar and to the Dean of the College duplicate lists of his electives for the Junior year, chosen in accordance with the scheme of electives shown below. He must specify the department chosen for concentrated study and the particular courses in this and other departments. This list must have the written approval of the head of the chosen department before it will be accepted by the Registrar, *and is a prerequisite to registration in the Junior year.*

A Junior shall pursue elective studies amounting to nine courses, chosen according to the following regulations:

Each student is required to elect, in each quarter, either three whole courses or two whole courses and two half courses. A student will be permitted to take not more than three whole courses and one half course in any one quarter, except by permission of the Dean, and in no case will he be permitted to pursue more than four courses at one time, except by special permission of the Administrative Board. In case permission for extra work has been granted, a mid-term report of "X" on any courses will necessitate the dropping of that course.

One department from one of the three general divisions must be selected for concentrated study. This is known as his *major* department. Not fewer than three courses nor more than five courses may be elected in this department in the Junior year. The courses are to be decided upon only after consultation with the head of the department. It lies within the discretion of the head of the department whether these courses shall be prescribed in his own department, or any part of them in allied departments.

The remaining courses (four to six) are free electives, subject only to the restriction that at least one course must be chosen from a department in each of the other general divisions. These two departments are known as the student's *minors*. One of these two courses

should be selected with a view to a continuance of the same subject in Senior year (see Senior requirements). This department is known as his first *minor.*

The remaining courses, if any, shall be free electives in any subject open to Juniors.

Senior Year

Not later than May 15 of his Junior year each student shall hand in to the Registrar and to the Dean of the College duplicate lists of his electives for the Senior year, chosen in accordance with the scheme of electives shown below. He must specify the department chosen for concentrated study and the particular courses in this and other departments. This list must have the written approval of the head of the chosen department before it will be accepted by the Registrar, *and is a prerequisite to registration in the Senior year.*

A Senior shall pursue elective studies amounting to nine courses, chosen according to the following regulations:

Each student is required to elect, in each quarter, either three whole courses or two whole courses and two half courses. A student will be permitted to take not more than three whole courses and one half course in any one quarter, except by permission of the Dean, and in no case will he be permitted to pursue more than four courses at one time, except by special permission of the Administrative Board. In case permission for extra work has been granted, a mid-term report of "X" on any course will necessitate the dropping of that course.

A Senior shall continue in the department of concentrated study begun in the Junior year, known as his *major.* Not fewer than three courses nor more than five courses may be elected in this department in the Senior year. The courses are to be decided upon only after consultation with the head of the department. It lies within the discretion of the head of the department whether these courses shall be prescribed in his own department, or any part of them in allied departments.

The remaining courses (four to six) are free electives, except that at least two courses must be chosen from one of the other general divisions and in a department in which a course was elected in Junior year, thus completing the first *minor.*

COURSES LEADING TO THE DEGREE OF BACHELOR OF ARTS IN HUMANITIES

Within the College of Liberal Arts has been established a particular arrangement of courses leading to the degree of A.B. in Humanities. The intention of this programme of study is to throw emphasis upon studies of a more nearly human or personal interest than may be chosen by the candidate for the A.B. degree under the wider elec-

tive programme described above. Though the degree requirements, in general, approach more nearly those demanded for the A.B. degree a generation ago than do the requirements which may be met for the general A.B. degree, they differ only slightly from the programme of studies which many students in the College of Arts are following. The distinction lies in a prescribed arrangement of courses, chosen to coördinate the student's interest in the human and intellectual expression of man in the ancient and in the modern world. The requirements for the Freshman year are practically the same as those in the general A.B. course.

Two lines of approach to the degree of A.B. in Humanities are offered: (1) An Ancient Curriculum, in which Greek or Latin is required; (2) A Modern Curriculum, in which French and German or French and Italian are required. Of the thirty-six courses required for the degree, thirty-one are specified in the Ancient Curriculum, while five are elective; thirty are specified in the Modern Curriculum, while six are elective.

Students who desire to follow the course of study leading to the degree of A.B. in Humanities should consult the Dean of the College of Liberal Arts.

	Ancient Curriculum	**Modern Curriculum**
	FRESHMAN YEAR	
	English 1	English 1
	Mathematics 1-2	Mathematics 1-2
	History 1-2	History 1-2
Select two of which one must be Greek or Latin	Greek 1-2	French 3-4-5
	Latin 1-2	Compar. Literature 14 (Greek)
	French 3-4	
	German 1-2	
	SOPHOMORE YEAR	
	English 3	English 3
	History 5-6	History 3-4
	Greek 17 (Ancient Art)	Compar. Literature 15 (Latin)
	Natural Science, two courses	Natural Science, two courses
Select one group	Greek 3-4 and Latin 5 or French 5 or German 3	French 6 and German 1-2 or Italian 1, 2
	Latin 5-6 and French 5 or German 3	

(Languages chosen in Freshman year must be chosen here.)

Junior Year

	English 4 or 5	English 4
	Mathematics 63 (Euclid)	Mathematics 63 (Euclid)
	Natural Science, one course	Natural Science, one course
	Economics 1-2	Economics 1-2
	Philosophy 1	Philosophy 1
Select one group	Greek 5 and Latin 6 or French 6 or German 4	German 3-4 or Italian 5-6 (Dante)
	Latin 51 and French 6 or German 4	(Language chosen above must be continued.)
	(Languages chosen above must be continued.)	Elective, one course
	Elective, one course.	

Senior Year

	English 6	English 5
Select one	History 12	Economics 5
	Compar. Lit. 16 (Middle Ages)	Philosophy 2
	Compar. Lit. 61 (Renaissance)	**Select one: German 22, French 15, Italian 7
	Philosophy 2	
* Select one	Greek 6 or 11	
	German 22	
	Compar. Lit. 36 (Greek Drama)	
	Elective, four courses	Elective, five courses

Electives

Note that only one language (Greek and Latin counting as one) may be continued as elective beyond the required work.

I. Electives Under the Ancient Curriculum

Botany 1, 2
Chemistry 1, 2
Comparative Literature 16, 31, 32, 51, 52, 53, 56, 78
Economics 15, 16
English 37, 38, 51, 55, 56, 59, 60, 41, 42, 43, 44, 45, 47, 48
French 11, 12, 13, 18, 24
Geology 3-4
German 41-42, 43-44
Greek 6, 11, 21-22
History 12, 14, 23, 32-33, 34-35
Italian, any courses
Latin 3, 6, 12, 13, 14, 30, 32
Mathematics 4, 5
Philosophy, any courses
Physics 14
Zoölogy 1, 2

II. Electives Under the Modern Curriculum

Botany 1, 2
Chemistry 1, 2
Comparative Literature 16, 31, 32, 36, 51, 53, 56, 61, 68, 78
Economics 16, 18-19
English 37, 38, 51, 55, 56, 59, 60, 41, 42, 45, 47, 48
French 11, 12, 13, 15, 16, 18, 24
Geology 3-4
German 23, 41-42, 43-44
Government 1-2, 5
History 7-8, 14, 23, 5-6
Italian, any courses
Mathematics 4, 5
Music 3, 4
Philosophy, any courses
Physics 14
Zoölogy 1, 2

* If Greek or German is chosen above it is to be continued here.
** If German or Italian is chosen above it is to be continued here.

COURSE LEADING TO THE DEGREE OF A.B. IN JOURNALISM

The course of study for the first two years is the same as that required of all other students seeking the A.B. degree (see pp. 176-177).

The following courses are specified in the Junior and Senior years:

English 21 (Advanced Composition); Economics 1-2 (General Economics); Economics 20 (Risk and Risk-Bearing) or Economics 12 (Business Cycles); Economics 13 (Public Finance); Economics 40 (Labor Problems) or Economics 30 (Theories of Social Reform); Government 1 (National Government); Government 11 (State Government); History 7-8 (American History); History 59-60 (North Carolina History); Commerce 22 (Advertising); Commerce A (Resources and Industries); Library Administration 5 (The Use of Books); one course in either Sociology or Rural Social-Economics; one course in science beyond the Sophomore requirements in science.

To complete the degree requirements, four and one-half courses in Journalism must be taken in the Junior and Senior years: Journalism 1, 2, 3, 10, 11, and 12.

DEGREES WITH DISTINCTION

Honors of two grades, *Honors* and *Highest Honors*, will be awarded at Commencement to those candidates for the degree of Bachelor of Arts who have done distinguished work in a group of related subjects. Every candidate for Honors must register before October 15 of his Junior year with the Committee on Degrees with Distinction. He shall file a statement, properly approved, of the courses which he proposes to elect, and these electives shall be such as to show a unified plan and to provide for a field of concentrated study involving, as a rule, two departments within the division in which his major work lies. In connection with the regular courses, candidates are expected to do, in term-time and in vacations, a considerable amount of additional reading, or such other supplementary work as may be prescribed by the department. In every case such additional work must be closely related to the general plan of study adopted by the candidate. Students will have the guidance and assistance of special instructors, and small groups will be formed for the discussion of the reading and of the courses. This tutorial assistance will be entirely independent of the conduct of the courses, the object being to stimulate interest in reading not required as a part of the regular class-work for its culture value rather than for direct preparation for examinations.

Besides the careful organization of the plan of study and the conferences, a thesis and a final oral examination are required. The thesis need not necessarily be a contribution to knowledge, but is designed to show the ability of the student to use his knowledge with intelligence and to interpret facts and his personal reaction upon the material studied in the courses or derived from the supplementary reading. The examination will test the candidate's knowledge of the whole field of concentrated study, and will also test his proficiency in a special topic within the general field. The aim of the entire plan of study is thus to secure, as far as possible, a conception of a field

of learning as a unity; to prevent, through the various measures named above, undue emphasis on the separate courses as independent units; and to lay the foundation for right method through concentrated study in some part of the field.

The administration of the Honors courses is vested in a Committee on Degrees with Distinction, which consists of three representatives from each of the three divisional groups into which the Faculty of the College of Liberal Arts is divided. At present Honors are offered in the Division of Language and Literature and in the Department of History and Government on the terms set down below.

Requirements for Honors in Language and Literature

1. A reading knowledge of one language besides English.

2. Six courses chosen from those open to Juniors, Seniors, and Graduates. Of these, four are to be in one department, the other two may be (*a*) in another literature, or (*b*) in history, provided the courses are closely correlated with work in the major subject. But other combinations may be made, provided they show a definite plan.

3. In every case the major and minor groups constituting the six courses must show a definite relationship: *e. g.*, the study of a period, such as Romanticism in France, Germany, and England, this study including history as well as literature; or the study of a type, such as tragedy, in at least two literatures; or the study of the influence of some writer, for example, Plato, Virgil, Dante, Shakespeare, Goethe, on some literature other than his own. Other means of securing correlation may also be approved.

4. Acquaintance with the following subjects is to be gained within or outside courses regularly elected: (*a*) the history of the literature chosen for the major subject, including the principal masterpieces illustrating its development; (*b*) some acquaintance with the political and social history of the nation whose literature is so elected; (*c*) some acquaintance with the history and philology of the language. The extent of the candidate's knowledge of these topics, as well as of the field or topic chosen for intensive study, will be tested by the examination to be held near the end of the Senior year.

5. An essay of some length is to be written upon some topic belonging to the field chosen for intensive study. This essay must show (*a*) investigation and mastery of facts; (*b*) power of interpretation; (*c*) excellence in composition and style.

6. In estimating the value of the candidate's work due regard will be paid to the grades attained by him in his regular college courses, but the matter of grades is subsidiary to other considerations, such as the extent and quality of his reading, the maturity of his thought, and his ability to use his knowledge effectively.

Requirements for Honors in History and Government

1. Students majoring in History and Government may on approval of the Department elect to "read for honors." This election must be made before the end of the first quarter of the Junior year.

2. Such students shall select one of the following fields for "reading": Ancient and Medieval History; Modern European and English History; American and Hispanic-American History; Applied Politics and Government; Political Science and the Political Philosophy. For the direction of the "reading," a committee of the Department will be appointed for each student.

3. Students reading for honors will be expected to take such seminary courses to be given by members of the Department or by visiting scholars as the Department may require.

4. From time to time the committee shall receive reports from students on readings.

5. Students undertaking this work will be expected to submit before the end of the Senior year an essay, prepared under the guidance of the committee. While not necessarily a contribution, the paper should show mastery of the technique of historical research.

6. Near the close of the Senior year, the student will be required to stand an oral examination in which he will be expected to show a reasonable mastery of the field of his specialization and of such other courses as he shall have taken in the department.

7. Students who pass shall receive credit of two full courses toward graduation and at Commencement shall be given a certificate. There shall be two grades—"with honors" or "with highest honors."

THE SCHOOL OF APPLIED SCIENCE

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*
ANDREW HENRY PATTERSON, A.M., *Dean.*

THE ADMINISTRATIVE BOARD

ARCHIBALD HENDERSON, Ph.D., D.C.L., LL.D., *Professor of Mathematics.*

JAMES MUNSIE BELL, Ph.D., *Smith Professor of Chemistry.*

COLLIER COBB, A.M., D.Sc., *Professor of Geology.*

WILLIAM MORTON DEY, Ph.D., *Professor of the Romance Languages and Literatures.*

ISAAC HALL MANNING, M.D., *Professor of Physiology.*

CLARENCE ADDISON HIBBARD, M.A., *Associate Professor of English.*

REQUIREMENTS FOR ADMISSION

See page 46.

EXPENSES

See page 55.

COURSES LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

In order to be recommended for the degree of Bachelor of Science in this School the student must have passed satisfactorily examinations in all the studies required in one of the following courses outlined in this department, I, IV, V, and VI. Each course combines instruction in certain sciences and their application to the arts, with certain other general studies deemed essential to a liberal education. These courses are designed to furnish the fundamental instruction and to prepare students to pursue the technical professions to which they lead. The courses leading to the degree are four in number.

I. Bachelor of Science in Chemistry.
IV. Bachelor of Science in Medicine.
V. Bachelor of Science in Geology.
VI. Bachelor of Science in Pharmacy.

Besides the courses leading to degrees as shown above, this School offers courses preparatory to the study of Medicine and of Dentistry. Outlines of the courses leading to degrees and of these premedical and predental courses are given below.

I. BACHELOR OF SCIENCE IN CHEMISTRY

FRESHMAN YEAR

Fall Quarter: Chemistry 1E, Mathematics 1E, German 3, Drawing 1.

Winter Quarter: Chemistry 2E, Mathematics 2E, German 4, Drawing 2.

Spring Quarter: Chemistry 31, Mathematics 3E, English 1.

SOPHOMORE YEAR

Fall Quarter: Chemistry 41, Mathematics 4E, English 3.

Winter Quarter: Chemistry 42, English 4, Physics 1.

Spring Quarter: Chemistry 61, Chemistry 8, Chemistry 47, Physics 2.

JUNIOR YEAR

Fall Quarter: Chemistry 45, Chemistry 62, Engineering 50a, Economics 1.

Winter Quarter: Chemistry 81, Chemistry 46, Engineering 50b, Economics 2.

Spring Quarter: Chemistry 82, Chemistry 63, Engineering 50c, Elective.

SENIOR YEAR

Fall Quarter: Chemistry 21, Chemistry 83, Chemistry 11, Geology 3.

Winter Quarter: Chemistry 22, Chemistry 64, Chemistry 12, Geology 4.

Spring Quarter: Chemistry 23, Chemistry 84, Chemistry 13, Chemistry 18.

IV. BACHELOR OF SCIENCE IN MEDICINE

FRESHMAN YEAR

Fall Quarter: Chemistry 1, Mathematics 1, French 3 or German 3.*

Winter Quarter: Chemistry 2, Mathematics 2, French 4 or German 4.*

Spring Quarter: Botany 1, English 1, French 5 or German 21.

SOPHOMORE YEAR

Fall Quarter: Physics 1, Chemistry 35, French 6 or German 22.

Winter Quarter: English 3, Zoölogy 1, Physics 2.

Spring Quarter: Chemistry 61, English 4, **Elective, 1 course.

* If French is not offered as an entrance credit, the elementary courses must be taken in the University without credit. The same principle applies to German. Note that this curriculum requires four courses of college grade work in French or German above the elementary courses 1 and 2 or two such courses in French *and* two such courses in German. In case both French and German are taken, note that the requirements are French through course 4 *and* German through course 4. In case only one language is taken, that language must be continued through French 6 or German 22 according to the language chosen.

** Note that six full courses of electives are required in addition to the courses prescribed, making 27 full courses of college work, exclusive of any elementary courses in French or German which may be taken to make up the entrance requirement in either language.

JUNIOR YEAR

Fall Quarter: Chemistry 62, Psychology 1, Zoölogy 3.

Winter Quarter: Psychology 2, *Elective, 2 courses.

Spring Quarter: *Elective, 3 courses.

V. BACHELOR OF SCIENCE IN GEOLOGY

FRESHMAN YEAR

Fall Quarter: Geology 1, Mathematics 1, Chemistry 1, Drawing 1.

Winter Quarter: Geology 2, Mathematics 2, Chemistry 2, Drawing 2.

Spring Quarter: English 1, Botany 1, Chemistry 31, German 3 or French 3 or Spanish 3.

SOPHOMORE YEAR

Fall Quarter: Geology 3, Physics 1, German 4 or French 4 or Spanish 4, Engineering 22a.

Winter Quarter: Geology 4, Geology 8, Physics 2.

Spring Quarter: Geology 9, Geology 13, Engineering 16c, Engineering 22c.

JUNIOR YEAR

Fall Quarter: Geology 11, English 3, Engineering 6a, Elective, 1 course.

Winter Quarter: Geology 12, Geology 23, English 4, Engineering 6b.

Spring Quarter: Geology 10, Geology 51, Engineering 6c, Elective, 1 course.

SENIOR YEAR

Fall Quarter: Chemistry 11, Geology 15, Geology 21.

Winter Quarter: Chemistry 12, Geology 22, Economics 1 (or elective, 1 course).

Spring Quarter: Geology 25, Geology 52, Economics 2 (or elective, 1 course).

VI. BACHELOR OF SCIENCE IN PHARMACY

FRESHMAN YEAR

Fall Quarter: Chemistry 1, English 1, Botany 10.

Winter Quarter: Chemistry 2, Mathematics 1, Botany 11.

Spring Quarter: Mathematics 2, Chemistry 31, French 3 or German 3.**

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* Note that six full courses of electives are required in addition to the courses prescribed above, making 27 full courses of college work, exclusive of any elementary courses in French or German which may be taken to make up the entrance requirement in either language.

** If neither French nor German is offered for entrance, the elementary courses in one must be taken in the University without credit. Note that this curriculum requires French *or* German through course 4.

SOPHOMORE YEAR

Fall Quarter: Pharmacology 20, Chemistry 41, French 4 or German 4.*

Winter Quarter: English 3, Pharmacy 11, Pharmacy 15, Materia Medica 20, Chemistry 42.

Spring Quarter: Pharmacy 12, Pharmacy 16, Materia Medica 21, Pharmaceutical Chemistry 29, English 4 or 5.

JUNIOR YEAR

Fall Quarter: Pharmacy 20, Materia Medica 30, Physics 1, Pharmaceutical Chemistry 27.

Winter Quarter: Pharmacy 21, Pharmacy 28, Pharmacology 32, Physics 2, Pharmaceutical Chemistry 35.

Spring Quarter: Chemistry 13, Chemistry 61, Pharmaceutical Chemistry 25, Pharmacy 38.

SENIOR YEAR

Fall Quarter: Pharmacy 30, Chemistry 62, Economics 1 or Psychology 1.**

Winter Quarter: Pharmaceutical Chemistry 40, Economics 2 or Psychology 2,** Pharmacy 43 or Bacteriology or Zoölogy 1.***

Spring Quarter: Pharmacy 31, Pharmaceutical Chemistry 41, Pharmacy 44 or Bacteriology or Zoölogy 2.***

PREMEDICAL OR PREDENTAL COURSE

(Two Year Course)

FRESHMAN YEAR

Fall Quarter: Chemistry 1, English 1, French 3 or German 3.

Winter Quarter: Chemistry 2, Mathematics 1, French 4 or German 4.

Spring Quarter: Chemistry 35, Mathematics 2, English 2 (Premedical).

SOPHOMORE YEAR

Fall Quarter: Botany 1, Psychology 1, Physics 1.

Winter Quarter: Zoölogy 1, Psychology 2, Physics 2.

Spring Quarter: Zoölogy 2, Chemistry 61, Elective, 1 course.

The course outlined above is planned with the object of preparing a student in the shortest possible time to enter upon the study of medicine. It is not laid down as prescribed but is suggested to meet the requirements of Schools of Medicine which require only two years

* If neither French nor German is offered for entrance, the elementary courses in one must be taken in the University without credit. Note that this curriculum requires French or German through course 4.

** The subject chosen in the fall quarter must be continued in the winter quarter.

*** The subject chosen in the winter quarter must be continued in the spring quarter.

of academic work (sixty semester hours). Further work in Physics and in Organic Chemistry should be taken in the summer following the completion of the above work if possible. Students preparing for the study of Dentistry are advised to follow the course outlined above. It is recommended, however, that they secure at least the equivalent of one course in Drawing. At present Schools of Dentistry vary as to entrance requirements from graduation from a high school to two years of college work. Those requiring college work set as a minimum the completion of the following subjects in the amounts stated: Six semester hours in each of the following—English, General Chemistry, Biology or College Physcis (the latter unless 1 unit was presented for entrance), and one subject from Foreign Language, History, Mathematics, Technical Drawing. The remaining six semester hours are free electives.

The course outlined below, while not so complete as the two-year course above, is planned to meet the entrance requirements of Schools of Dentistry which admit students who have had one year of college work. If the applicant has presented one full unit of credit in Physics from his high school, Physics 1 and 2 are not required, but are strongly recommended in any case. In case Physics 1 and 2 are not taken the student is required to take two other courses of college grade in order to make his total credits sufficient to meet the requirement of thirty semester hours. History 1 and 2 are recommended for this purpose.

ONE YEAR PREDENTAL COURSE

Fall Quarter: Botany 1, Chemistry 1, Mathematics 1.

Winter Quarter: English 1, Mathematics 2, Physics 1, Zoölogy 1.

Spring Quarter: Chemistry 2, English 2 (Premedical), Physics 2.

By attending the Summer Quarter the student may lighten somewhat the course in the Winter Quarter and can secure valuable work in Qualitative Analysis. This course of action is advisable especially if the student is obliged to take Physics after he enters. Instead of the arrangement shown above the work should be taken in the following order:

Fall Quarter: Chemistry 1, English 1, Mathematics 1.

Winter Quarter: Mathematics 2, Physics 1, Zoölogy 1.

Spring Quarter: Botany 1, Chemistry 2, English 2 (Premedical).

Summer Quarter: Chemistry 35, Physics 2.

THE SCHOOL OF ENGINEERING

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*
GUSTAVE MAURICE BRAUNE, C.E., *Dean.*

THE ADMINISTRATIVE BOARD

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CLARENCE ADDISON HIBBARD, M.A., *Associate Professor of English.*

REQUIREMENTS FOR ADMISSION

See page 47.

EXPENSES

See page 55.

HISTORICAL SKETCH AND DESCRIPTION OF COURSES

Courses in engineering of professional grade have been given for a number of years at the University of North Carolina. Up to June, 1922, the courses in engineering were grouped in the School of Applied Science; but owing to a rapid development in engineering here, and due to the great need of well trained professional engineers, especially in the State of North Carolina, the Board of Trustees separated the Department of Engineering from the School of Applied Science and authorized the formation of a distinct school of engineering. In this school, at present, are included the Departments of Civil, Electrical, and Mechanical Engineering, and will also include any other new departments in engineering that may be established. With the formation of the School of Engineering ample opportunities were given to the Engineering Departments to expand along broad and cultural lines.

The instruction offered in the School of Engineering consists of four-year courses leading to the degrees of Bachelor of Science in Civil, Electrical, and Mechanical Engineering.

The degree of Master of Science in Engineering will be conferred on students who have satisfactorily completed approved graduate

work extending over not less than one year. The course of studies leading to the Master's degree will be found under the Graduate School.

The engineering courses have been developed along broad and cultural lines and the importance of cultural training as a part of a thorough technical education has been kept constantly in mind. The importance of English in the curriculum has been emphasized and the courses are arranged so that students will receive instruction in English throughout the four-year period. Much attention is also given to training the young students in public speaking. This is an acquired art, and a very necessary adjunct of an engineering education. Engineers must necessarily be versed in business affairs, and to meet this condition students will devote considerable time to Economics and Business Administration and Management. During the first three years, the contents of the curriculum are practically the same for all engineering students. Fundamentals in Mathematics, Mechanics, and other sciences are contained in these first three years while the application of these fundamentals are illustrated throughout the course by the solution of a number of practical problems in engineering.

The intimate contact of engineering students with the academic students and the participation of the former in all University activities is regarded as a valuable part of their general training, the making of a broad, cultural, all-around manhood.

COÖPERATIVE ENGINEERING EDUCATION

For the past ten years or more a great amount of time and thought have been devoted to engineering by engineering teachers and the profession at large, with the idea in mind of adopting some method in engineering education that would develop the observation and initiative of the students and bring them in touch with outside things during their theoretical training. Criticism has often been directed against young engineering graduates by practicing engineers that they did not have any grasp or conception of practical things after four or five years of theoretical training.

In order to meet this criticism the University of Cincinnati installed in the fall of 1906 a method of engineering education which is called coöperative education. Under this plan the students spend half of their time at the University receiving their theoretical training and the other half with engineering industrial firms, thus getting some practical training during their collegiate period. This system of education has proven quite successful and has been adopted by a number of prominent institutions, among which are Harvard, Massachusetts Institute of Technology, and New York University. The method of coöperation has been modified by several of the institutions that have adopted this system; for example, the Engineering School of Harvard University has arranged a plan whereby the students of the junior

class only coöperate with the outside industries. This modified plan permits the students to get that touch with outside practice, but at the same time does not destroy the social and cultural contact which the students derive from full time association on the University campus during the Freshman, Sophomore, and Senior years.

Realizing that the coöperative system of training young engineers is a distinct step forward, the Engineering Departments of the University of North Carolina adopted the Harvard plan, putting it into effect September, 1922.

Under this plan the students of the Junior class are divided into two groups designated as Sections I and II. The students in each group spend half their time at the University and the other half in actual engineering work. Each student has an alternate so that when a student of Section I is at school his alternate in Section II is on the job. At the end of four weeks the student from Section II goes to school while his alternate in Section I takes his place on the job. This alternation continues throughout the Junior year up to the latter part of September, when both sections attend the University full time during their Senior year.

In order to compensate for the time that the students are away from school during their Junior year, the Sophomores are given a summer course lasting eight weeks, so that under the new coöperative plan the students receive the same amount of school work as under the regular four-year plan. The students receive pay for their services during the time that they are on their outside work, thus enabling them partially to defray their expenses during their Junior year.

II. S.B. IN ELECTRICAL ENGINEERING

Freshman Year

Mathematics 1E, 2E, 3E; Chemistry 1E, 2E; English 9abc; History 2E; Engineering 1abc, Engineering 3abc, Engineering 7c, Engineering 61abc.

Sophomore Year

Mathematics 4E, 5E, 6E; Physics 1E, 2E; English 10abc, English 16E, 17E, 18E; Engineering 4abc, Engineering 6abc, Engineering 22ac, Engineering 32bc, Engineering 62abc.

Sophomore Summer Term—Eight Weeks

Engineering 2s, Engineering 62s.

Cooperative Junior Year

English 11, Economics 1E, 2E, 3E; Mathematics 56, 57, 58; Engineering 5, Engineering 63, Engineering 93.

Senior Year

English 12abc; Business Administration 10E, 11E, 12E; Engineering 20c, Engineering 64abc, Engineering 74abc, Engineering 84abc.

III. S.B. IN CIVIL ENGINEERING

Freshman Year

Mathematics 1E, 2E, 3E; Chemistry 1E, 2E; English 9abc; History 2E; Engineering 1abc, Engineering 3abc, Engineering 7c, Engineering 11abc.

Sophomore Year

Mathematics 4E, 5E, 6E; Physics 1E, 2E; English 10abc, English 16E, 17E, 18E; Engineering 4abc, Engineering 6abc, Engineering 22a, Engineering 32bc.

Sophomore Summer Term—Eight Weeks in Camp

Engineering 2s, Engineering 23s.

Cooperative Junior Year

English 11; Economics 1E, 2E, 3E; Mathematics 56, 57, 58; *Geology 31; Engineering 5, Engineering 60, Engineering 90.

Senior Year

English 12abc; Business Administration 10E, 11E, 12E; Geology 18, 19, 20; Engineering 14abc, Engineering 24abc, Engineering 34abc, Engineering 44abc, Engineering 15-25-35-45abc.

VI. S.B. IN MECHANICAL ENGINEERING

Freshman Year

Mathematics 1E, 2E, 3E; Chemistry 1E, 2E; English 9abc; History 2E; Engineering 1abc, Engineering 3abc, Engineering 7c, Engineering 61abc.

Sophomore Year

Mathematics 4E, 5E, 6E; Physics 1E, 2E; English 10abc, English 16E, 17E, 18E; Engineering 4abc, Engineering 6abc, Engineering 22ac, Engineering 32bc, Engineering 62abc.

Sophomore Summer Term—Eight Weeks

Engineering 2s, Engineering 62s.

Cooperative Junior Year

English 11; Economics 1E, 2E, 3E; Mathematics 56, 57, 58; Engineering 5, Engineering 63, Engineering 93.

Senior Year

English 12abc; Business Administration 10E, 11E, 12E; Engineering 20c, Engineering 74bc, Engineering 94abc, Engineering 95a, Engineering 96abc.

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* Geology 31 is given in the first three cooperative periods; all other courses are continuous throughout the cooperative year.

THE SCHOOL OF EDUCATION

Officers

Harry Woodburn Chase, Ph.D., *President.*

Nathan Wilson Walker, A.B., Ed.M., *Acting Dean.*

Marion Rex Trabue, Ph.D., *Director of the Bureau of Educational Research.*

Mrs. Louise Coffey Pickard, *Secretary to the Dean.*

Ada Viele, A.B., *Statistical Assistant, Bureau of Educational Research.*

The Administrative Board

Marcus Cicero Stephens Noble, *Professor of Pedagogy.*

Edgar Wallace Knight, Ph.D., *Professor of Rural Education.*

Marion Rex Trabue, Ph.D., *Professor of Educational Administration.*

Arthur Melville Jordan, Ph.D., *Professor of Educational Psychology.*

Esek Ray Mosher, Ed.D., *Professor of Education.*

James Finch Royster, Ph.D., *Kenan Professor of English Philology.*

Robert Diggs Wimberly Connor, Ph.B., *Kenan Professor of History and Government.*

Howard Washington Odum, Ph.D., *Kenan Professor of Sociology.*

Andrew Henry Patterson, A.M., *Professor of Physics.*

REQUIREMENTS FOR ADMISSION

See page 47.

EXPENSES

See page 55.

PURPOSES

The primary purpose of the School of Education is to prepare young men and young women for the more responsible teaching positions, principalships, and superintendencies. Adequate preparation for such positions is required by statutory provision in all progressive American states. Every state is now spending vast sums of money for the education of the youth of the land. It is one of the primary functions, therefore, of the School of Education in a state university to fit prospective teachers and educational workers for their careers by developing in them the necessary knowledge, attitudes, ideals, and skill for successful teaching and administration.

FREE TUITION

By an act of the General Assembly of 1887, free tuition is given to teachers in the schools of North Carolina and to prospective teachers who are residents of the State. In order to secure free tuition, the student applying for the privilege must sign an agreement to teach in North Carolina for at least two years within a period of three years after leaving the University. This provision for free tuition is administered through the School of Education, and students availing themselves of the opportunity it affords are required to register through this school. This does not mean that all who avail themselves of the free tuition privilege for teachers shall register for the degree of A.B. in Education; but it does mean that each one who takes advantage of this provision will be required to meet the professional requirements which the State now demands of one of his academic standing—that is, two professional courses for one who completes the sophomore year, four for one who completes the junior year, and six for one who completes the senior year. A student applying for the free tuition privilege, therefore, may register for either the A.B. degree in the College of Liberal Arts or for the A.B. in Education.

Each student accepting the teacher's free tuition privilege must complete in the School of Education the number of professional courses required by the State Department of Education for that grade of certifiate to which his academic standing would entitle him. The grades of certificates issued and the academic and professional requirements for each are as follows:

Class of Certificate	College Courses	Professional Courses
A	36 (including)	6
B	27 (including)	4
C	18 (including)	2

CURRICULUM LEADING TO THE DEGREE OF A.B. IN EDUCATION

Academic Requirements

Modern education postulates that in determining the sort of training a student should get the following considerations should not be overlooked: (1) his interests and abilities, (2) the use his training is likely to be to him, and (3), the needs and demands of modern life. The curriculum, therefore, is not the fixed, rigidly prescribed something it once was. There is less emphasis on general disciplinary values and more emphasis on the development of specific traits, individual abilities, and specialized skills. No longer does any single subject, or fixed group of subjects, hold the key to the world's culture, knowledge, or opportunities. These principles are frankly recognized and are incorporated in the curriculum set up by the School of Education leading to the degree of A.B. in Education.

The requirements for this degree are, in brief, as follows: First, there is a sharp differentiation between the *academic* and the *professional* parts of the curriculum. Of the thirty-six courses required for the degree, twenty-seven fall in the *academic* group, and nine in the *professional* group. In the Freshman and Sophomore years the academic requirements are very much the same as they are in any good college of Liberal Arts: 3 courses in English, 2 courses in History,

2 courses in Mathematics, 3 courses in one Foreign Language, preferably Latin or French, 2 courses in each of two branches of Natural Science,* one of which must be Physics or Chemistry, 2 courses elective. In the Junior and Senior years, the student takes 4 courses in his major academic field and 2 courses in his minor academic field. Both his academic major and his academic minor must be chosen from branches taught in the high schools. The remaining academic courses are elective. This plan enables the student to lay a broad cultural foundation in the first two years of his college course, and in the last two to specialize in some academic field in which he is interested and has shown that he has some ability. At the end of his course he goes out with a degree of mastery at least in one or two academic fields. Moreover, there is awaiting him the opportunity to put such training to immediate use in the teaching field. If a student in his undergraduate days thinks he may, after teaching a few years, wish to take up the study of law, he can lay a broad foundation for it through history, government, economics, etc. Or, if he thinks he may later wish to study medicine, he has the opportunity to lay the foundation for such study by specializing in the natural sciences.

The specified academic requirements for the first two years of this curriculum are as follows:

English 1, 3, 4, or 5.
History 1-2.
Mathematics 1-2.

Natural Science, 4 courses—Chemistry 1-2 or Physics 1, 2 must be taken. The other two courses may be chosen from Geology 1-2, Botany 1 and Zoölogy 1, and Physics 1, 2 or Chemistry 1-2. If the student prefers to take two foreign languages he is required to take Chemistry 1-2 or Physics 1, 2 only.

Foreign Language, three courses beyond entrance requirements in one language, preferably Latin 1, 2, 3, or French 3, 4, 5. The student may, with the approval of the Dean, offer some other foreign language, as German 3, 4, 5, or Spanish 3, 4, 5, or Greek 3, 4, 5. As stated above, if he prefers, he may take three courses in each of two foreign languages and only one branch of natural science.

Academic Requirements

For a description of the academic courses required for the degree of A.B. in Education, the reader is referred to the several academic departments where offerings are shown under appropriate headings elsewhere in this catalogue.

Professional Requirements

Of the nine professional courses required for the degree of A.B. in Education, 4 are prescribed, and 2 are group electives. The remaining 3 courses may, with the approval of the Dean of the School of Education, be chosen in Education, Psychology, or Sociology.

* The student who prefers to offer three courses in each of two foreign languages and two courses in one branch of natural science may do so. In this case, two courses in either Chemistry or Physics will satisfy the requirement in natural science.

The required professional courses are as follows:*

Education 1—An Introduction to Educational Psychology (or Psychology 1-2).
Education 20—Educational Psychology.
Education 51—Principles of Secondary Education.
Education 52—General Methods in Secondary Education.
Educational History—one course—(Education 26, 29, 36, or 37).
Educational Measurements—one course—(Education 43, 56, 62, or 64).
Elective—three courses.

All courses must be approved by the Acting Dean before they are accepted by the Registrar.

Courses in Other Departments Carrying Professional Credit

With the approval of the Dean of the School of Education, certain courses given by other departments of the University may be accepted as electives for professional credit toward the degree of A.B. in Education. Attention is called particularly to the following undergraduate courses which may, with the approval of the Dean, be thus credited:

English 91—The Teaching of English in the High School.
Latin 11—The Teaching of Latin in the High School.
Mathematics 51—The Teaching of Mathematics in the High School.
Psychology 1-2—General Psychology—which is interelective with Education 1 as one professional course.
Psychology 22—The Psychology of Learning.
Psychology 26—Child Psychology.
Psychology 30—Social Psychology.
Sociology 1—The Elements of Sociology.
Sociology 2—Principles of Sociology.
Sociology 4—Educational Sociology.
Sociology 10—The Study of Social Problems.
Sociology 24—The Philosophy of Play.

GRADUATE WORK IN EDUCATION: HIGHER DEGREES

The School of Education is prepared to offer a fairly wide range of graduate work as will be seen from the list of courses announced under the Department of Education. See p. 116. Graduate students in Education working for advanced degrees, Master of Arts, Master of Science, and Doctor of Philosophy, register in the Graduate School of the University.

LIBRARY FACILITIES

In addition to the library facilities afforded by the General Library, the School of Education has its own departmental library of over two thousand bound volumes and several thousand pamphlets, periodicals, and school reports. Here are to be found most of the more important recent books on education printed in English, all the more important educational journals and periodicals, to which the Library is a regular subscriber, and a large collection of state and city school reports. This

* These six courses are required also of students in the College of Liberal Arts who elect Education as a major and of students who accept the free tuition privilege for teachers provided for under the state law.

library is housed in Peabody Hall and is in charge of a trained librarian. In addition to an adequate stack room, there is a well appointed reading room.

The Educational Library is open on week days from 9 A. M. to 1 P. M., and from 2 P. M. to 5 P. M.; and on week day evenings from 7 P. M. to 10 P. M.

BUREAU OF EDUCATIONAL RESEARCH

The Bureau of Educational Research was organized in the School of Education on July 1, 1923, for the purpose of conducting and encouraging scientific research in the public schools of the state of North Carolina. This Bureau serves as a clearing-house for exact information about educational conditions in the State, collects and assembles the results of investigations conducted by other agencies dealing with social work, and carries on independent studies of a scientific nature. Standard scales and tests for measuring the work of the schools may be purchased at cost through the Bureau.

The staff of the Bureau is at present composed of the professors in the School of Education and one Statistical Assistant. The Bureau is equipped to conduct surveys of any phase of school efficiency, and its services are given without charge to public schools in the state. Schools in other states will be charged a reasonable price for services rendered. Correspondence regarding investigations should be addressed to Dr. M. R. Trabue, Director of the Bureau of Educational Research.

TEACHERS' BUREAU

The School of Education conducts a teachers' bureau which is at the service of teachers and school officials without any cost to them whatsoever. The annual registration of teachers runs from 300 to 500, most of whom register with it during the Summer School.

THE HIGH SCHOOL JOURNAL

The *High School Journal* is published eight times a year by the School of Education. All the professors in the school contribute to its columns, as do other members of the University faculty. The subscription price is $1.50 a year. The Editorial Board is composed of the professors in the School of Education.

ORANGE COUNTY SCHOOLS

The School of Education coöperates with the Orange county school officials in the administration and supervision of the public schools of the county. This phase of our work is conducted by Dr. E. W. Knight, who meets regularly with the county board of education to give such expert advice and assistance as the board may need or desire. Doctor Knight also serves without pay as Assistant County Superintendent of Schools.

EDUCATIONAL INFORMATION AND ASSISTANCE

The members of the School of Education, by virtue of their close contact with the schools of the State, their wide acquaintance with school officials, and their practical and theoretical knowledge of the State's school problems, are obliged to carry on constantly a rather considerable correspondence. Every year they are called upon by school officials and teachers to answer hundreds of letters of inquiry relating to every conceivable phase of educational administration and school procedure. There is no charge whatsoever for this service.

THE MURPHEY CLUB

The Murphey Club is an informal organization of the students and faculty of the School of Education for the study of current educational problems. The Club holds monthly meetings throughout the college year.

CONSPECTUS OF COURSES IN EDUCATION, 1924-1925

Cat. No. of Course	*Descriptive Title*	*Credit*	*Instructor*	*When Given*
1	Introduction to Educational Psychology	1	Jordan	F-W-S
4	Theory and Practice of Education	1	Noble	W
5	Library Administration	½	Wilson	W
20	Educational Psychology	1	Jordan	F-S
26	Public Education in the South	1	Knight	F-W
29	History of Education in North Carolina	1	Noble	F-S
31	Rural School Organization and Administration	1	Knight	W
36	Foundations of Modern Education	1	Knight	W
37	History of American Education	1	Knight	F
41	Introductory Course in Educ. Adm.	1	Trabue	W
43	The Elements of Statistical Methods	1	Trabue and Hampton	S
46	Classroom Management	1	Trabue and Hampton	W
48	Classification of Pupils and Supervision of Instruction	1	Trabue and Hampton	S
51	Principles of Secondary Education	1	Walker	F-W
52	General Methods in Secondary Education	1	Walker	W-S
55	Social Policy and Education	1	Walker	F
56	Tests and Measurements in Secondary Education	1	Trabue and Hampton	S
64	Mental Measurements	1	Jordan	W
101	Problems in Secondary Education	½, 1, or 1½	Walker	F-W-S
103	Problems in Educational Administration	½, 1, or 1½	Trabue	F-W-S
104	Problems in Educational Measurements	½, 1, or 1½	Trabue and Jordan	F-W-S
110	Problems in Educational Psychology	½, 1, or 1½	Jordan	F-W-S
126	Foundations of Education	½, 1, or 1½	Knight	F-W-S
140	Thesis Course			F-W-S

THE SCHOOL OF COMMERCE

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*

*DUDLEY DEWITT CARROLL, M.A., *Dean.*

CLAUDIUS TEMPLE MURCHISON, Ph.D., *Acting-Dean and Director of Research.*

JOHN BROOKS WOOSLEY, A.M., *Acting-Assistant Dean.*

WALTER JEFFRIES MATHERLY, M.A., *Director of Extension Service.*

ROLAND BYERLY EUTSLER, S.M., *Research Assistant.*

The Administrative Board

LOUIS ROUND WILSON, Ph.D., *Kenan Professor of Library Administration.*

*WILLIAM WHATLEY PIERSON, Ph.D., *Professor of History and Government.*

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ERLE EWART PEACOCK, A.B., M.B.A., *Professor of Accounting.*

WALTER JEFFRIES MATHERLY, M.A., *Professor of Business Administration.*

THOMAS LATIMER KIBLER, Ph.D., *Professor of Economics and Transportation.*

ERICH WALTER ZIMMERMAN, Ph.D., *Associate Professor of Commerce and Resources.*

EDMUND BROWN, JR., Ph.D., *Associate Professor of Marketing.*

WILLARD EARLE ATKINS, A.M., J.D., *Associate Professor of Economics and Business Law.*

CORYDON PERRY SPRUILL, JR., A.B., B.Litt., *Assistant Professor of Economics.*

GENERAL STATEMENT

Though courses of instruction in Economics and in certain business subjects have been offered for many years in the University of North Carolina, not until 1919 was there established a comprehensive, well-organized business curriculum. In that year, the Legislature, in conformity with the recommendations of the President and the Board of Trustees, enacted the legislation which resulted in the immediate or-

* Absent on leave, on the Kenan Foundation, 1924-1925.

ganization of the School of Commerce. The School occupies a place in the University organization which is coördinate in standing and equipment with the College of Liberal Arts, the School of Applied Science, etc.

The undergraduate course of study, leading to the degree of Bachelor of Science in Commerce, covers a period of four years and is designed to give a foundation of broad and general culture, and, at the same time, supply a definite and practical training to those who intend to engage in any of the great lines of industrial and commercial activity. For those desiring more intensive specialization, the School of Commerce offers graduate courses leading to the degree of Master of Science in Commerce.

AIM AND PURPOSE

The phenomenal industrial growth of the South in recent years has produced an imperative need for trained business men. The School of Commerce in a large sense is the expression of the University's desire to serve this special need of its own particular section. To this end substantial support has been accorded the School both by the University and the State as a whole. In consequence the School has been provided with a large and able corps of instructors, with spacious quarters in Saunders Hall, and thoroughly modern teaching facilities.

It is the purpose of the School of Commerce to provide its students with as thorough and scientific business training as it is possible to give within the range of the subjects which it attempts to cover. Its teaching policy assumes that such training should consist not only of the requisite understanding of the principles and methodology which govern the organization and administration of typical business enterprises, but in addition an understanding of the problems and the larger relationships of the economic organization as a whole. In his attempt to master the technical and the vocational aspects of business, the student will not be permitted to lose sight of the social and cultural.

The School of Commerce has also accepted as an important guiding principle the advisability of giving prominent place to the dynamic elements in the business world. Specialization, standardization, and ever-increasing magnitude of the business unit, though the order of the day and the sure manifestation of industrial progress, yet have served greatly to strengthen the forces of economic change. Inter-dependence breeds instability. Just as no business can stand alone, so no technological process, no mechanical device, no rule-of-thumb formula, is fixed except for the day. The constant flux of prices, wages, profits, industrial relations, and the whole category of business methods, imposes upon the executive as one of his most persistent and exacting duties the necessity of unceasing readjustment and modification of almost all aspects of his business. It is in relation to such problems as these changes may produce that the highest order of business judgment must be displayed.

TEACHING POLICY

Wherever possible, the plan is followed of presenting the subject matter of the various courses from the point of view of the executive, always bearing in mind that the executive's field of interest includes the broad outside relationships as well as the internal administration of his business. Adherence to this common point of view prevents confusion in the mind of the student, and enables him to place the problems and practices of business in their true perspective.

Within the short space of time at his disposal, it is impossible for the student to investigate in detail the entire field of business. It is therefore the policy of the School of Commerce to supplement the general survey which is required of every student with a more intensive study of that portion of the field which is of especial interest to him. To this end there have been prepared for the student certain groupings of closely related courses. The groupings have been made in such a way as to correspond to certain major functions which must be performed in the successful administration of a business enterprise.

These functions may be designated as follows: (1) the administration of production; (2) the management of finance; (3) marketing and selling; (4) management of personnel; (5) the avoidance or distribution of risk; (6) dealing with problems of transportation; (7) conforming with legal requirements; (8) handling the problem of accounting.

In addition to the eight groups of courses which have been constructed to conform to these business functions, there have been provided three other groups. The first of these offers special study in the field of foreign trade. It is so devised as to be of value not only to those intending to engage in some branch of export or import trade, but also to be of material aid to those looking forward to careers in connection with the consular service.

The second of these special groups has been prepared in response to the rapidly growing interest in scientific municipal administration, and the widening opportunity for professional careers in the field of city management.

The third of the special groups is intended for those desirous of becoming teachers of commercial subjects. Among the preparatory and business schools of the south the need for well-qualified instructors to teach business subjects is exceptionally acute.

SCOPE OF SPECIALIZATION

Specialization in the manner here indicated does not begin until the Junior year. During his Freshman and Sophomore years, the student is expected to follow a well-defined path of study substantially similar to that pursued in a liberal arts course. This requirement is based on the belief that a foundation of a broad cultural nature is necessary for every type of business training. The first year's work con-

sists of courses in English, Mathematics, History, Industrial and Commercial Geography, Economic Resources, and a modern language. In the second year are required courses in general Economics, Industrial History, English and American literature, together with courses in modern language and a natural science.

Even in the Junior year, each student regardless of special interests, is required to take certain basic courses, as for example, accounting, business organization, money and banking, and principles and methods of modern government. Additional requirements are courses in psychology, business law, and theories of economic reform.

It is at once obvious that this arrangement permits of only a fair amount of specialization within the period of undergraduate work. In consequence it is strongly urged that those desirous of obtaining more intensive and specialized training plan for at least one year of graduate study.

REQUIREMENTS FOR ADMISSION

See page 47.

EXPENSES

See page 55.

COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN COMMERCE

The degree of Bachelor of Science in Commerce will be conferred upon students who satisfy the entrance requirements and complete the four-year course as outlined below.

The work in the Freshman and Sophomore years is the same in all the courses of study, unless otherwise indicated, and is as follows:

Freshman Year

English 1
Mathematics 1-2
History 1-2
Geology 5
Commerce A
French 3-4, or
Spanish 3-4, or
German 3-4

Sophomore Year

English 3-4
Economics 1-2
Economics 5
Zoölogy 1-2, or
Botany 1-2, or
Chemistry 1-2, or
Physics 1-2, or
Geology 1-2
French 5, 9, or
Spanish 5, 9, or
German 21, 31

In order that the Junior and Senior subjects may be chosen in such a way as to constitute a coherent and comprehensive whole, rather than an unrelated and scattered series, the following study groups have been devised. Each student is expected to elect at the beginning of his Junior year the group which best serves his needs and adhere to it. Any changes must be approved by the Administrative Board of the School.

I. FACTORY ORGANIZATION AND ADMINISTRATION

Coördinating raw materials, equipment, and labor in the efficient production of a salable product is an intricate science and a fascinating art. Knowledge of types of organization, ways of financing, methods of control, and tests of efficiency are the necessary equipment of the modern business executive.

Junior Year

Commerce 1-2
Commerce 10
Psychology 1-2
Economics 10
Economics 11
Government 1-2 or
Government 1, 11

Senior Year

Commerce 5
Commerce 11
Commerce 12
Commerce 14
Commerce 32
Commerce 60-61
Commerce 62
Economics 40
Psychology 35, or
Economics 30, or
Commerce 16

II. BANKING AND FINANCE

The mobilization of the financial and credit resources of a business community and their direction into sound productive channels of investment is a task of extreme delicacy and serious responsibility. To serve successfully and safely in this field, one should be equipped with a knowledge of the nature of banking and credit as well as an acquaintanceship with the methods of judging business trends and testing financial integrity.

Junior Year

Commerce 1-2
Commerce 10
Psychology 1-2
Economics 10
Economics 11
Government 1-2, or
Government 1, 11

Senior Year

Commerce 12
Commerce 30
Commerce 31
Commerce 32
Commerce 35
Commerce 60-61
Commerce 62
Commerce 5, or
Commerce 36
Economics 12
Economics 40

III. MARKETING

The great success which has been achieved in turning out manufactured articles and agricultural products has been sacrificed in many instances by crude and awkward marketing and shipping methods. Standardizing, grading, packing, ready and safe procedure to destination at fair rates are the essentials in this vital matter. The South is particularly in need of intelligent leadership here.

Junior Year

Commerce 1-2
Commerce 10
Psychology 1-2
Economics 10
Economics 11
Government 1-2, or
Government 1, 11

Senior Year

Economics 24
Commerce 41
Commerce 42
Economics 26
Commerce 32
Commerce 60-61
Commerce 62
Economics 40
Economics 15 or
Economics 12 or
Commerce 46 or
Economics 20

IV. ADVERTISING AND SALESMANSHIP

A worthy product and an eager buyer may never be united merely because the mind of the buyer was never explored or the virtues of the product never systematically studied and forcefully presented. Developing interest in a prospective customer, careful choice of convincing language, strategic advance toward a favorable decision are processes which we owe a product in which we have faith.

Junior Year

Commerce 1-2
Commerce 10
Psychology 1-2
Economics 10
Economics 11
Government 1-2 or
Government 1, 11

Senior Year

Commerce 20
Commerce 21
Commerce 22
Commerce 60-61
Commerce 62
Commerce 32
Economics 24 or
Economics 12
Economics 40
Psychology 36
English 20 or
Commerce 26

V. MERCHANDISING

This field is going through a very rapid and significant transition. The organization and operation of department and chain stores are fast giving rise to a science of merchandising. The purchase, care, financing, and sale of goods is a complicated task in which blundering and inefficiency have long burdened society. Mastery in this activity is well worth the careful study it will require.

Junior Year

Commerce 1-2
Commerce 10
Psychology 1-2
Economics 10
Economics 11
Government 1-2 or
Government 1, 11

Senior Year

Commerce 20
Commerce 21
Commerce 22
Commerce 23
Commerce 24
Commerce 60-61
Commerce 62
Commerce 32
Commerce 40 or
Commerce 12
Economics 12
Economics 40

VI. PERSONNEL MANAGEMENT

The selection, promotion, and care of the human element in industry is just establishing itself as a distinct task. The enormous losses in labor turnover, in the misfits of persons to tasks, in the misunderstanding and conflicts between employer and employee, have led at last to belated but earnest study of this problem. In combining profitable business and far-sighted philanthropy, the profession of personnel manager promises to take high rank.

Junior Year

Commerce 1-2
Commerce 10
Psychology 1-2
Economics 10
Economics 11
Government 1-2 or
Government 1, 11

Senior Year

Commerce 11
Commerce 14
Commerce 32
Commerce 60-61
Commerce 62
Economics 30
Economics 40
Psychology 35
Sociology 1
Sociology 7 or
Psychology 30

VII. RISK-BEARING AND INSURANCE

As industry and trade grow more complex and the hazards of change and uncertainty increase, the problem of meeting and distributing risk becomes a vital matter in business administration. The protection of the individual against the risk of sickness and death is also of increasing concern to the business world. The correct computation of risk, the economical collection of premiums, and the safe and productive investment of funds are the outstanding functions in this field.

Junior Year

Commerce 1-2
Commerce 10
Psychology 1-2
Economics 10
Economics 11
Government 1-2 or
Government 1, 11

Senior Year

Economics 20
Economics 40
Commerce 32
Commerce 36
Commerce 38-39
Commerce 60-61
Commerce 62
Mathematics or
Economics 12 and
Commerce 12
or
Commerce 20 and
Commerce 22

VIII. TRANSPORTATION AND SHIPPING

As production is concentrated more and more in great industrial centers, the problem of cheap and efficient transportation of raw materials to factories, and of finished products to the markets is increasingly vital. The welfare of every community and the economic development of every section depend on adequate and ready shipping facilities at fair and reasonable rates.

Junior Year

Commerce 1-2
Commerce 10
Psychology 1-2
Economics 10
Economics 11
Government 1-2 or
Government 1, 11

Senior Year

Economics 15
Economics 40
Commerce 11
Commerce 50
Commerce 51
Commerce 60-61
Commerce 62
Economics 24
Economics 26
Commerce 32

IX. BUSINESS LAW

The complicated legal phases of modern business, together with the increasingly intricate relations between government and industry, call for more lawyers who are trained in the fundamentals of our economic life. A person who is unfamiliar with the relations and methods of our business operations can hardly hope to succeed in business law, which is one of the most lucrative and useful types of legal practice. This course offers an excellent foundation for legal training.

Junior Year

Commerce 1-2
Commerce 10
Psychology 1-2
Economics 10
Economics 11
Government 1-2

Senior Year

Commerce 7
Commerce 12
Commerce 36
Economics 13-14
Economics 40
Government 11
Commerce 62
Philosophy 10-11-12
Economics 15 or
Commerce 32

X. ACCOUNTANCY

The profession of Certified Public Accountant is now recognized not only as one of the most lucrative but one of the most useful lines of work. The tragedy of business failure may often be avoided by the application of the principles of scientific accounting. The government also requires an increasing host of trained accountants in its tax operations. A combination of accounting, business law, business organization, and corporation finance constitute the leading elements in this field.

Junior Year

Commerce 1-2
Commerce 3
Commerce 10
Commerce 12
Economics 10
Economics 11
Psychology 1-2

Senior Year

Commerce 4
Commerce 5
Commerce 6
Commerce 7
Commerce 8 or
Commerce 9
Commerce 60-61
Commerce 62
Government 1-2 or 1, 11
Economics 40
English 20 or
Commerce 32

XI. FOREIGN TRADE AND THE CONSULAR SERVICE

The transition in our foreign trade from the easy sale of raw materials and food products by the past generation to the rigorous competition with skilled and experienced foreigners in the sale of manufactured commodities compels us to understand the processes and technique involved in the difficult task of selling in other countries. Knowledge of the different languages, tastes, customs, and traditions, as well as the niceties of diplomacy, is requisite here. The delicate forces which turn the tide for or against us certainly cannot be understood by superficial observation.

Junior Year

Commerce 1-2
Commerce 10
Psychology 1-2
Economics 10
Economics 11
Government 1-2
Economics 24

Senior Year

Economics 26
Commerce 46
Commerce 51
Commerce 20
Commerce 60-61
Commerce 62
Commerce 35
Economics 40
Commerce 47 and
Commerce 32 or
History 10-11 or
An Additional Modern Language

XII. MUNICIPAL ADMINISTRATION

A discriminating critic of American life has said that the weakest spot in our national life is city government. This is largely due to our persistence in looking at municipal government as a matter of partisan political control rather than as a highly technical business proposition. The great need is a thorough-going organization and management of city affairs in the light of sound business procedure. To get essential municipal functions performed efficiently and at the lowest cost to taxpayers calls for a vigorous combination of scientific business and engineering principles.

NOTE: a. Freshmen are required to take Mechanical Drawing 1abc in addition to the regular work.

b. Sophomores take Plane Surveying and Map Making in addition to the regular work.

Junior Year

Commerce 1-2
Commerce 10
Government 1, 11
Psychology 1-2
Engineering 37C
Engineering 38C
Engineering 70C

Senior Year

Commerce 9
Commerce 11
Commerce 60-61
Commerce 62
Government 9
Economics 13-14
Economics 40
Psychology 30
Sociology 8 or
Commerce 14

XIII. COMMERCIAL TEACHING

A large percentage of high school students never go to college. It is, therefore, important that some competent instruction in elementary economics and commerce be offered in the secondary schools. The course of study outlined below will qualify those who complete it for the state high school teachers' certificate in North Carolina and should prepare for the teaching of the following subjects: bookkeeping and elementary accounting, elementary economics, commercial geography, civics, salesmanship, etc.

Junior Year

Commerce 1-2
Commerce 10
Psychology 1-2 or
Education 1, 20
Economics 10
Economics 11
Government 1-2

Senior Year

Commerce 60-61
Commerce 62
Economics 40 or
Economics 12 or
Economics 30
Education 2
Education 51
Education 52

Select two courses from the following:

- Education 20
- Psychology 35, 36
- Economics 24
- Commerce 11
- Commerce 12
- Commerce 41
- Rural Economics 1, 2, 3
- Economics 20, 24, 100-a, 100-b
- Commerce 20, 21, 22, 23, 5, 6, 30, 31, 32, 47.

GRADUATE WORK AND DEGREES

The School of Commerce is prepared to offer graduate work in the special fields covered by the study groups as outlined above. At present no graduate degree is offered other than that of Master of Science in Commerce. Candidacy for this degree is conditioned upon the holding of the S.B. in Commerce degree from this institution, or from another institution of approved standing where the work required in commerce is substantially the same nature and volume. Graduates of other institutions unable to meet these conditions will find it advisable to

register in the Graduate School of the University under the Department of Economics as candidates for the degree of Master of Arts since many of the commerce courses are credited toward this degree. The same procedure is recommended for those desirous of becoming candidates for the Doctor's degree with business as the subject of major interest.

Graduates of other institutions desiring to enter the School of Commerce as candidates for higher degrees should submit their records together with application for entrance to the Dean of the Graduate School.

The conferring of the graduate degree assumes as a minimum the completion of nine full courses or their equivalent as approved by the Dean, a residence period of at least one year, and the completion of a thesis which embodies the results of original research work on the part of the students. (For further details see the catalogue of the Graduate School).

Special library and study facilities are available for graduate students. They have the exclusive use of the Commerce seminar room, where they may have private desk space and work undisturbed with the requisite materials immediately at hand.

INSTITUTE FOR RESEARCH IN THE SOCIAL SCIENCES

This is an organization for the promotion of research in the fields of Economics, Sociology, and Rural Economics. It has an annual fund of $32,500 to devote to this purpose. From eight to twelve fellowships, with stipends ranging from $750 to $1,500, are available to persons holding a master's degree from approved institutions. Students in the School of Commerce are eligible for these research fellowships.

SPECIAL STUDENTS

There are many young people already in business who feel the need of additional special training but who are unable to spend the full four years at the University, or who cannot present the necessary entrance credits. Recognizing this, the School of Commerce will admit students of twenty-one years of age, or over, who cannot fulfill the entrance requirements, as special students, but not as candidates for a degree. Such students must supply satisfactory evidence of their ability to profit from the courses.

TEACHING FELLOWSHIPS

At least two fellowships of an annual value of five hundred dollars each are annually available for graduate students in commerce. Their assignment is conditioned on excellence in scholarship, and the possession by the student of industry and initiative. The School reserves the right to call upon its Fellows for aid in giving instruction, or for other departmental duties of an academic nature, but will not require for such purposes more than one-third of their time.

LABORATORY ASSISTANTS

Certain laboratory assistants are selected from the student members of the School each year to aid in the accounting, economic resources, and advertising laboratories. Compensation is provided according to agreement at the time of appointment.

LIBRARY FACILITIES

In addition to the facilities afforded by the General Library of the University, the School of Commerce is equipped with its own special library in Saunders Hall. In the latter are contained practically all of the economic and business publications of recent years which may be of value to the student. An appropriation of $1000 annually assures that the collection will be well-maintained and kept up-to-date.

Especially noteworthy is the collection of periodical publications. All of the important periodicals in the general field of business and finance are regularly received. In addition, the School of Commerce is a regular subscriber to over fifty trade journals, and to the statistical services of the Babson Institute, the Standard Statistics Company, Brookmire, Gibson, and the Harvard committee on Economic Research.

LECTURES AND OBSERVATION TRIPS

Students are expected to take advantage of the frequent opportunities to hear lectures offered by prominent business men who are invited to the University for this purpose. These lectures will prove of great value to the student in furthering his acquaintance with the practical aspects of business.

From time to time the classes in business subjects make visits to neighboring factories and other types of business institutions for the purpose of making first-hand studies of organization and administrative methods.

APPRENTICESHIPS

During the summer between the Junior and Senior years each student will be expected to spend his time working in an establishment in the line of business for which he is preparing. This may begin in the summer following the Sophomore year. An effort will be made to assist students in securing such opportunities for the summer. However, the School must not be regarded as an employment agency, as one of the most valuable experiences in training for business comes from locating opportunities for one's self. The University itself, in its business aspects, will be used as a working laboratory. Wherever possible, each student before graduation, will be required to make a careful analysis of a going concern in the field of his practical interest.

STENOGRAPHY

No credit toward the degree is given for stenography but every student is urged to acquire facility in the use of it before graduation. Instruction in this subject is not offered by the University but can be secured in Chapel Hill in a private school.

COMMERCE CLUB

This is an organization of advanced students and faculty members formed for the purpose of studying and discussing practical current business problems and tendencies. Meetings are held every two weeks on Monday evenings. Members are elected on the basis of demonstrated interest in the purposes of the Club and ability to contribute to its discussion.

STANDARDS OF WORK

The School has been admitted to membership in the American Association of Collegiate Schools of Business. This is an organization formed for the promotion of thorough-going, scientific training for the business profession. It maintains high standards of membership based on the number and training of the faculty, the thoroughness of the work, the length and breadth of the curriculum, number of students, the financial backing of the school, and the facilities for carrying on the work.

STUDENT HABITS

Training for business, if it is to be worthy of the name, should include at least two elements: first, an understanding of the principles and processes of business; and second, the practice of habits of work essential to business success. Observation appears to justify the conclusion that promptness, industry, systematic application, and honest performance are quite as vital to mastery in the business world as an understanding of the nature of industrial and commercial phenomena. It is wasteful, then, to allow students to proceed far in this field if they are unwilling to fashion their habits in conformity with these essential requirements. The policy of the School will be to drop from its rolls any student who fails to respond to the above standards.

THE SCHOOL OF PUBLIC WELFARE

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*

HOWARD WASHINGTON ODUM, Ph.D., *Director.*

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SPECIAL STAFF

HOWARD WASHINGTON ODUM, Ph.D., *Kenan Professor of Sociology.*

EUGENE CUNNINGHAM BRANSON, A.M., Litt.D., *Kenan Professor of Rural Social Economics.*

JESSE FREDERICK STEINER, Ph.D., *Professor of Social Technology.*

HARRY WOLVEN CRANE, Ph.D., *Professor of Psychology and Psycho-Pathologist for the State Board of Public Welfare.*

HAROLD DIEDRICH MEYER, A.M., *Associate Professor of Sociology and Supervisor of Recreation.*

*WILEY BRITTON SANDERS, A.M., *Assistant Professor of Sociology and Supervisor of Family Case Work.*

KATHERINE JOCHER, A.M., *Lecturer on Family Case Work.*

GEORGE LAWRENCE, *Supervisor of County Field Work.*

HISTORICAL STATEMENT

The School of Public Welfare of the University of North Carolina was authorized by the Board of Trustees at their mid-year meeting in January, 1920, on the recommendation of President Harry Woodburn Chase. The recommendation was made with the needs both of the college and the extension service of the University in mind and with the thought that such a School of Public Welfare would be built up around the Department of Sociology. In his report to the trustees, President Chase said:

* Absent on leave, 1924-1925.

"Nothing is more clear than that, if the citizenship of state and nation is to grapple successfully with the ever more complex problems of modern democracy, if popular government is to work effectively in these confusing times, our educational system as a whole must stress as never before the instruction of our youth in matters of common weal. A knowledge of the fundamental law of society, of what democracy really means and what its problems are, a spirit of social-mindedness which leads the individual to look beyond himself and to think of himself in relation to his community—these things are more and more requisite for good citizenship. The social sciences, including economics, history, government, and sociology in its various aspects, must receive a new and more intense emphasis in the higher education of the future. North Carolina, feeling her way towards the solution of new social problems, consequent upon the growing complexity of her life, with a new program of social legislation, needs, and will need, leaders well trained in the fundamentals of their task. The proposed School of Public Welfare should help train such leaders, should offer short courses for workers in service, and should, in coöperation with state and national agencies, render assistance to the cause of public health, to superintendents of public welfare, Red Cross workers, secretaries of chambers of commerce and boards of trade, to school systems in their special problems, to bureaus of community recreation—in short, it should both correlate and make distinctive additions to the contributions which the University can render to the development of the human wealth in North Carolina."

THE GENERAL PLAN OF WORK

In accordance, therefore, with the purposes of the School as set forth by the President and Trustees of the University plans for effective organization were begun and tasks entered upon during the Summer School of 1920. To meet the specific needs of the State and the University, and to some extent the South, a four-fold service was planned. The *first* emphasizes *instruction* in Sociology and Social Problems, including teaching in the College and University, extension teaching through the Extension Division for outside communities, and through general instruction and promotion of citizenship. The *second* emphasizes *training for special work and community leadership,* with special reference to town, village, and rural communities, and with special application to the State of North Carolina and the South. This division hopes to meet the very urgent demands of the State for trained men and women for its county superintendents of public welfare and other official positions and of many communities throughout the South for Red Cross secretaries and other community workers in the mill village and elsewhere. The *third* aspect of the work emphasizes direct and indirect *community service,* or social engineering through the avenues of community leaders, county superintendents of public welfare, local and district conferences, and community planning

for leaders, industrial managers, and others. The *fourth* aspect emphasizes social research, scientific inquiry, and publication of results estimated to be of value to the State, the University, and to the general public welfare and social progress. A *fifth* general purpose, kept constantly in the foreground, provides that the School maintain close and cordial coöperation with the State Department of Public Welfare, with other State departments of public service, with other departments and schools of the University, and with local and national voluntary agencies.

UNIVERSITY ORGANIZATION

In the classification of services just described it is important to keep in mind the larger two-fold nature of the work. Instruction in the college and University, together with research into social problems constitute the primary function of the Department of Sociology; while training for professional social work, extension services, and assistance in coördinating and perfecting public services, mark the primary work of the School of Public Welfare as an integral administrative unit of the University. The work of the Department of Sociology is credited like that of other Departments in the College of Liberal Arts and other Schools, and may be counted toward the several degrees. The graduate degrees given in the School of Public Welfare, with Majors in Sociology or social work, are granted through the Graduate School of the University, as are all other graduate degrees. The University believes that professional training for social work and community leadership will make substantial progress in the projection of the ideals of a university professional school into the practical programs of public welfare. These ideals include: A standard curriculum of permanent and administrative unity; a special faculty of trained teachers; a faculty of coöperating university professors; the large university faculties and influence; a group of students well prepared and possessing the personality and character for leadership; a program of field work which provides adequate training and contributes to community building; the support of an enthusiastic and informed constituency; cordial coöperation with departments of public service and with private enterprise; the spirit of scientific and constructive work characteristic of the best educational statesmanship.

THE PLAN OF INSTRUCTION

In planning the courses of instruction, two important considerations have been kept constantly in mind: The first is to provide the necessary courses in social theory and applied sociology for the student who wishes to major in Sociology or to elect subjects from this Department adequate for his purposes. The second consideration has in mind the necessary background, philosophy, and technique prerequisite to the preparation for social work in the larger and more effective way. In the first group, courses consist largely of the study of the history and theory of society, together with special problems like immigra-

tion, social pathology, penology, the negro problem, statistics, and social research and seminars on special topics assigned to the student. Such courses may be elected by college students and counted toward other degrees, or they may be elected and coördinated with the special courses for the training for professional social work.

In the group of courses prepared especially for the training of social workers and community leaders the institutions and institutional modes of life are the centers around which are built the instruction and field work required of all who select this plan of preparation. The six fundamental institutional modes of life emphasized are: The home and family; the school and education; the church and religion; the State and government; industry and work; the community and association. No courses are offered in the field of religion and the church, but courses in Philosophy may be elected if desired, and the place of the church is treated thoroughly in all courses in community organization and community work, as well as in courses dealing with social theory and organization. The plan of instruction, then, follows the division set forth below:

I. General Social Theory.
II. The Home and Family.
III. The Community and Association.
IV. The State, Government, and Public Institutions.
V. The School and Education.
VI. Industry and Work.
VII. Methods of Organization and Administration.
VIII. Field Work.
IX. Summer Institutes of Public Welfare.

In each of these divisions courses listed are correlated with other courses, both in the Department of Sociology and the School of Public Welfare, and in the Departments of Economics, Government, Psychology and the Schools of Education and Commerce. The courses tending more nearly to specialization in industrial management and industrial welfare will be strengthened as the demand increases to include a large number from which to choose. In making plans for enrolling or electing courses the student should make special inquiry to ascertain whether all courses listed are given during any specific year. The exact statement of term courses is given where possible, but the special needs of students, together with other considerations, make it advisable to allow some flexibility in arranging final schedules.

CANDIDATES FOR GRADUATE DEGREES

It is expected that those graduate students who are pursuing courses leading to graduate degrees, if they major in Sociology or Social Work, shall select a minor from the fields of Rural Social Science, Economics, Psychology, Government, Education, or History. In each of these fields North Carolina is rich in available opportuni-

ties for research and leadership and the several Departments are well equipped to do work of the highest order. Candidates for the Ph.D. degree will make special inquiries concerning requirements in addition to those specified in the Graduate School. In the announcements that follow reference is made to the several Departments and selected courses listed to indicate the opportunities for appropriate electives in other Departments.

PUBLIC OFFICIALS AND OTHER TRAINED WORKERS

Of special interest to municipal and county officers, especially city managers, is the new course just announced for municipal officials. This course, given in the School of Commerce, provides for a well rounded series of electives combining courses in the Schools of Public Welfare, Education, and Engineering, with the work done in the School of Commerce, and drawing generously on the Departments of Rural Social-Economics, Economics, and Sociology. The Freshman and Sophomore classes are provided with the usual standard courses in languages, history, mathematics, and prerequisite physical sciences. There is, perhaps, no greater field of need and opportunity today than in this field for business managers of municipal and county governments.

But other officials will be equally interested, and students graduating and looking forward to careers of promise should be interested in many of the courses. The judge of the juvenile court, the county commissioners, members of boards of schools and other institutions, county superintendents of public welfare, county demonstration agents, county health officers, community service executives, teachers in schools for adults, and many other public officials of state, county, and municipality will find inspiration and help in this course.

In the days to come the *visiting teacher* will prove to be one of the most important of all public service individuals and will find in training for community work the basis for outstanding success. The visiting teacher has been described as the agent of adjustment of conditions in the lives of individual children to the end that they may make more normal progress. This end is attained by visits first to the school, then to the home, then to the county superintendent of public welfare or other coöperating agency, thus gathering up the loose threads and focussing them upon home, school, and community. No less than special classes the school of democracy will have its visiting teachers alongside the superintendent of public welfare to help make democracy real in the unequal places. The field of Research in the Social Sciences is in need of many trained men and women for immediate tasks.

THE SCOPE OF PROFESSIONAL COURSES

In addition to regular graduate degrees and the special courses selected and combined to meet the needs of special public officials, the following types of courses are given. Details of these may be gained from descriptions of courses.

I. A one-year course of professional training consisting of two quarters in residence and one quarter in field work under supervision. This course is open to graduates of colleges of good standing. In addition to the specialized field work required during the third quarter, students taking this course will carry on field work in counties adjacent to the University during the two quarters in residence. A certificate will be issued upon completion of this course.

II. A two-year course of professional training. The first year of this course is identical with the one-year course. It will be followed by another year both in residence and in the field. Courses during the second year are designed for more intensive specialization and research and for more responsible administrative and executive work. A diploma will be issued upon completion of this course.

III. A four-year collegiate course, leading to the bachelor's degree with major in Sociology or social work is available for undergraduates and especially adapted to those who wish to prepare for special leadership in educational and administrative work in this field. It also makes the student thus graduating eligible for the advanced pure graduate course in Social Work and Administration.

IV. Special courses of one, two, or three quarters arranged for students desiring to do special research or short time work. Students not eligible to the regular courses by reason of not holding a degree may be admitted to these special courses as *special students* provided they have had sufficient general education and practical experience to insure satisfactory work.

V. Summer institutes, arranged for special groups including superintendents of public welfare, county directors of community recreation, Red Cross secretaries, teachers and principals interested specially in community work, and others.

For further particulars concerning scholarships, fellowships, publications, courses, and other details see the special Bulletin of the School of Public Welfare, issued in January; see also the announcement of courses in the Department of Sociology.

THE GRADUATE SCHOOL

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*

EDWIN GREENLAW, Ph.D., *Dean.*

THE ADMINISTRATIVE BOARD

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WILLIAM CHAMBERS COKER, Ph.D., *Kenan Professor of Botany.*

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The Graduate School finds its province in the fostering of research, in training students to become investigators and teachers in special fields of learning, and in supplying opportunity for further study to those who have already completed a college course. The University of North Carolina has been interested in research for more than a century, and has made noteworthy contributions in science, history, and the languages. Through its research clubs and learned journals, as well as through publications and other contributions to learning made by members of its faculty, the University has acquired the authority to give advanced instruction. For this it is competent both from the standpoint of the personnel of its faculty and in material equipment in libraries and laboratories.

Work for advanced degrees is under the supervision of the Graduate Faculty, which consists of those officers of professorial rank who are chiefly interested in the Graduate School, either because they offer courses for graduate students or because of their interest in research. The immediate direction of the Graduate School is in charge of an Administrative Board, of which the Dean is chairman.

* Absent on leave, on the Kenan Foundation, 1924-1925.

ADMISSION TO THE GRADUATE SCHOOL

Holders of bachelor's or higher degrees from standard colleges are admitted to the Graduate School upon presentation of their credentials and without examination. Upon the vote of the Administrative Board other mature persons may be admitted as special students in courses for which they are qualified. Admission to the Graduate School does not imply admission to candidacy for a higher degree, nor does it guarantee that the master's degree may be attained after one year's residence, or the doctor's degree after a residence of two or three years. Exact prescriptions for advanced degrees are made on the basis of the record of the student at this University as well as at his undergraduate college; they are determined for students as individuals, not as graduates of an approved college, and they may vary in accordance with the preparation of the student in the field in which he proposes to do advanced work.

ADMISSION TO CANDIDACY FOR A HIGHER DEGREE

Not earlier than the last week of his first quarter of residence, a member of the Graduate School may apply for admission to candidacy for a higher degree. This application must be accompanied by a transcript of his undergraduate record in the departments in which he proposes to do his major and minor work, and in allied departments. There must also be a certificate from the heads of the major and minor departments in which the candidate is working at the University of North Carolina as to the candidate's fitness to carry on such advanced work as may be required for the degree. In case a student lacks certain elementary courses in either the major or the minor department, such courses will be indicated on the departmental certificate, and will become prerequisite courses without graduate credit.

It should be noted that this distinction between admission to the Graduate School and admission to candidacy for a degree does not necessarily involve any extension of the time required for the degree. Properly qualified students will register at once, with the approval of the departments interested, for such advanced courses as they wish to take, and all advanced courses completed according to the rules for graduate work will be credited towards the degree.

EXPENSES

See page 55.

UNIVERSITY TEACHING FELLOWSHIPS

Twenty-four Teaching Fellowships, each with a stipend of $500, are available to graduate students. These Fellowships carry free tuition, and are payable in nine monthly installments, beginning October 15th of the year for which they are awarded. Holders of these Fellowships are expected to perform certain limited services as teachers or laboratory assistants in the department to which they are

assigned. This department must be the major department of graduate study, and each holder of a Fellowship will be required to pursue advanced courses in the department during his term as Fellow. Unless permission is given by special vote of the Administrative Board, no Fellow is permitted, during the term of his incumbency, to do other work for pay or to hold any other position to which a stipend is attached.

Fellowships are awarded only to men who present satisfactory records as students and who give promise of being able to carry on advanced work with distinction. Teaching experience is desirable, but is not required. The time required for the Master's degree may be extended in the case of men who hold Fellowships; ordinarily such men will not find it possible to register for more than two-thirds of the program usually carried by graduate students.

Correspondence in regard to the Teaching Fellowships may be addressed to the Dean or to the head of the department in which the candidate proposes to do his major work. A special form of application, to be secured from the Dean's office, must be filed on or before March 15. Elections to Fellowships will be made by the Administrative Board of the Graduate School on nomination by the department to which the Fellowship is to be assigned.

GENERAL REGULATIONS

The unit of work is the course, by which is meant, as a rule, a class meeting five times a week. Half courses are also offered. In some courses open only to graduate students, such as the seminars and other research courses, the formal class exercises are modified. But all such work is credited in terms of courses and half courses.

Students are ordinarily expected to register for three courses. But two half courses may be substituted for a full course. Not more than three courses, or fifteen hours of class attendance, will be permitted. Students of more than one year's standing, candidates for the doctor's degree, are permitted greater latitude with reference to courses for which formal registration is required. Such considerations as the amount of time devoted to research, to work on the doctoral dissertation, and the like, weigh in the estimate of what constitutes full work. But in all such cases detailed reports by the Department are required before residence credit is given.

Graduate students who desire credit for attendance at the Summer Session must register at the office of the Dean. The rules respecting admission to candidacy for higher degrees, for selection and approval of courses, and for the higher degrees, are the same in their application to Summer Session students as in the case of students registered for the regular sessions.

Only work announced as open for graduate credit in this Catalogue or in the Bulletin of the Summer Session may be counted toward the higher degree.

Work done *in absentia* will not be counted for graduate credit, except that in certain cases approved by the Department and by the Administrative Board, part of the work on the thesis for a higher degree may be done elsewhere, and except, further, that part of the work required for the degree of Doctor of Philosophy, may, on the recommendation of the major department and with the approval of the Administrative Board, be done at another University. But all such work, even when credited, is subject to examination at the finals required for the degree.

Graduate students are subject to the same rules regarding attendance upon classes, faithfulness to assigned tasks, examinations, and credit as students in other departments of the University. But graduate work pre-supposes a greater amount of time for research in the library or the laboratory, and the student, being more mature, is thrown more upon his own responsibility. For these reasons excessive registration is not permitted. The whole idea of graduate work is comprised in a more intense specialization and, therefore, more complete investigation than is necessary or wise in undergraduate instruction.

Each graduate student works under the direction of a special committee which consists usually of the head of the major department, or of some member of the staff of that department under whom the candidate is doing special work, who serves as chairman, and the other instructors with whom the candidate is registered.

No work falling below the standard represented by the grade of "C" is counted for graduate credit. At least half the work credited for any one year of residence must be of grade "B," or better. If, in the judgment of the Administrative Board, the quality of the work done by any student falls below the standard expected of graduate students, the registration of such a student will be cancelled.

THE GRADUATE DEGREES

The degrees under the supervision of the Graduate Faculty are Master of Arts (A.M.), Master of Science (S.M.), and Doctor of Philosophy (Ph.D.). For a complete statement of the requirements for these degrees reference must be made to the special Catalogue of the Graduate School, published in February of each year.

THE DEGREE OF MASTER OF ARTS

For the degree of Master of Arts the general prerequisite is the completion of a course leading to the degree of Bachelor of Arts in a college or university of standard grade. This course should have included special study in the department in which the graduate degree is sought sufficient in extent to constitute a proper preparation for advanced work. If the undergraduate preparation has been insufficient certain preliminary courses may be required before the student is admitted to candidacy for the degree.

Nine full courses of advanced character are usually required for the Master's degree. To complete these courses at least one full year's residence is required. No course will be counted for the degree unless it appears in the Graduate Bulletin, catalogue number, or is approved by the Administrative Board. Of the nine courses offered, six must be from one department recognized as the major, but with the approval of the special advisory committee and of the Administrative Board closely allied work in another department may be accepted as part of the major. More than six courses in one department may not be counted except under special conditions approved by the Administrative Board.

The remaining three courses, constituting the minor, are to be chosen from a department different from the major. But the relation of the minor to the major must be such as to constitute a clearly unified program.

Ordinarily a reading knowledge of at least one modern foreign language is expected of candidates for the degree.

Besides the completion of advanced courses that constitute a unified plan of study, the fitness of the student for the degree is tested in two ways: by a theses and by oral and written final examinations. The thesis tests the candidate's knowledge of the method of investigation and his ability to make use of the knowledge he has acquired. The examinations test his knowledge of his special field by directing attention to the field as a whole, as contrasted with the course, which deals only with a limited portion of the field.

The subject chosen for the thesis should be approved by the advisory committee and reported to the Administrative Board by the end of the first quarter of residence. No change in subject, or deferring of the time of approval, will be permitted unless at least two quarters of residence intervene between the approval of the subject and the conferring of the degree, except that, with the permission of the Administrative Board, the thesis may be completed by a student not in residence who has satisfied the requirements as to courses.

For details concerning the character of the thesis, the form in which it is to be presented, and concerning the examinations for the degree, the student is referred to the catalogue number of the Graduate Bulletin.

THE DEGREE OF MASTER OF SCIENCE

The subjects of major study may be chemistry, civil engineering, commerce, electrical engineering, or geology, and the prerequisite courses are the courses leading to the following degrees: S.B. in Chemistry, S.B. in Civil Engineering, S.B. in Commerce, S. B. in Electrical Engineering, and S.B. in Geology. Before becoming a candidate for the advanced degree the student must complete the courses leading to the corresponding bachelor's degree as outlined in the general catalogue.

Courses Leading to the Degree of Master of Science

I. Master of Science in Chemistry

One of the groups:
- Chemistry 117-118-119
- Chemistry 127-128-129
- Chemistry 147-148-149
- Chemistry 177-178-179
- Chemistry 197-198-199

Two of the groups:
- Chemistry 114-115-116
- Chemistry 124-125-126
- Chemistry 144-145-146
- Chemistry 174-175-176
- Chemistry 194-195-196

Three approved courses from one of the following departments:
- Electrical Engineering
- Geology
- Mathematics
- Physics
- Civil Engineering

II. Master of Science in Civil Engineering

One of these groups to be selected as a major:
- Engineering 100a-100b-100c
- Engineering 103a-103b-103c
- Engineering 106a-106b-106c
- Engineering 107a-107b-107c

Approved courses in the following departments, the arrangement and number of courses to be decided upon after conference with the Department of Civil Engineering:
- Mechanical and Electrical Engineering
- Chemistry
- Geology
- Mathematics
- Physics

III. Master of Science in Commerce

Courses to be arranged in consultation with the head of the School of Commerce.

IV. Master of Science in Electrical Engineering
- Engineering 110a-b-c
- Engineering 115a-b-c

Three approved courses from one of the following departments:
- Civil Engineering
- Chemistry
- Geology
- Physics

V. Master of Science in Geology
- Geology 104-105-106
- Geology 107-108-109

Three approved courses from one of the following departments:
- Chemistry
- Civil Engineering
- Botany and Zoology

VI. MASTER OF SCIENCE

Students holding the degree of B.S. from a standard college may proceed to the degree of S.M. by fulfilling the following requirements: Six approved courses in some science (the major); three courses in an allied department (the minor).

Other Requirements

The requirements regarding modern language, thesis, examinations, committee, residence, and conferring of degrees are the same as for the degree of Master of Arts.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is conferred only upon those who have completed, with high distinction, a period of extended study and investigation in a single field of learning during which they have gained control of the materials in the chosen field, have mastered the method of advanced study, and have illustrated this method through a dissertation, the result of independent research, which adds to the sum of human knowledge or presents results that have enduring value. Neither the accumulation of facts, however great in amount, nor the completion of advanced courses, however numerous, can be substituted for this power of independent investigation and the proofs of its possession. While it is true that a well prepared student of good ability may secure the degree upon the completion of three years of study, it should be understood that this time requirement is wholly secondary to other considerations that will be explained in the following paragraphs.

Admission and Registration

The rules for admission to courses leading to the degree of Doctor of Philosophy and for registration for courses in the first year of residence are the same as those stated above in the section on the degree of Master of Arts. The work for the first year is substantially the same as that provided for candidates for the Master's degree, and while it is not necessary to take the Master's degree it is usually advisable. The provisions for choice of major and minor subjects, and for the direction of the student's work by a special committee, are as already set forth under the requirements for the Master's degree.

Second and Third Years

Not later than the beginning of the second year's work a tentative program of study must be approved by the special committee and by the Administrative Board. During the second year this program may consist chiefly of advanced courses in both major and minor fields. The minor should be completed during this year. A reading knowledge of French and German, to be certified by the respective departments, is essential to the work of the second year, and in the case of certain

subjects other language requirements may be imposed by the special committee. During the second year, also, work on the dissertation should be begun.

Not earlier than the end of the second year, and at least one academic year prior to the Commencement at which the degree is expected, a preliminary oral examination will be given by the special advisory committee in charge of the candidate's work plus all members of the staff of the major and minor departments. This examination shall cover all the work of the two years. As a rule, no student will be admitted to candidacy for the doctorate until this examination has been passed.

The work of the third year requires no special registration in courses, though the candidate will find it advisable to attend certain courses as a lecture student. The major portion of the time is to be spent upon the dissertation or upon special laboratory or research work, and in preparation for the final examinations. A portion of the second and third years may be spent in residence at another university. In some departments such residence is required, the university being chosen according to the student's need for special courses in the field of his dissertation, or for the library or laboratory facilities it offers. Instead of work in another university, work in a large library or in some special laboratory may be substituted at the discretion of the student and his advisory committee.

The Dissertation

The subject chosen for the dissertation must be approved by the committee and by the Administrative Board not later than the time of the preliminary examinations. But work upon it, such as preliminary bibliography and the collection of material, should be begun earlier than this. The dissertation is the fruit of thorough investigation of a definite problem and finds its value in the scholarly and workmanlike manner in which it is presented, in its contribution to learning, and in the mental power which it displays.

The dissertation must be presented, in three typewritten copies, at least six weeks before the Commencement at which the candidate expects his degree. It must comply with the rules for form of theses prescribed by the Administrative Board, and abstracts must be supplied as under the rules for Master's theses. A thesis committee, appointed by the Dean, shall examine the dissertation, and no dissertation shall be accepted unless it secures the unanimous vote of the committee.

Publication of the dissertation, except by abstract in the Graduate Bulletin, is not required. But the various journals published by the University afford opportunity for such publication, in whole or part.

The Examinations

Reference has already been made to the preliminary examination required for admission to candidacy for the doctorate.

At least four weeks before the end of the period of study a written examination in the major subject must be passed by the candidate. This examination, which is conducted under the direction of the major department, may be limited to the courses taken by the candidate, but as a rule it is based upon the entire field of knowledge represented by the major.

The final oral examination must take place at least two weeks before the Commencement at which the student is a candidate for the degree. The committee to have charge of this examination is appointed by the Dean, and includes the head of the major department or his representative as chairman, with other members of the major and minor departments as assistants. The date and place of the examination shall be publicly announced, and the examination shall be open to any member of the Graduate Faculty.

FACILITIES FOR RESEARCH

Statements concerning the libraries of the University and concerning laboratory facilities will be found elsewhere in the Catalogue. The University publishes three journals of research, all of them firmly established and widely known. *The Elisha Mitchell Journal,* now in its forty-first year, has published a very large number of scientific papers, particularly in chemistry, botany, and zoölogy. The *James Sprunt Historical Monographs,* of which several volumes have appeared, are devoted to the results of historical studies, chiefly relating to North Carolina. *Studies in Philology,* a quarterly journal, now in its twenty-second volume, originally was devoted to the publication of monographs by members of the language departments of the University, but is now conducted on the same lines as *Modern Philology, Modern Language Notes, The Classical Journal,* and other journals of research, printing contributions by the foremost American scholars. *The Journal of Social Forces* and the *North Carolina Law Review* have recently been established as journals of research in the two fields represented by their titles.

Several departments maintain their own clubs for the purpose of stimulating interest in research. Of wider appeal are such organizations as the Elisha Mitchell Scientific Society, founded in 1883, and the Philological Club, founded and maintained by the language departments of the University. To these organizations graduate students are admitted. There is also a Graduate Club, composed of students and members of the Graduate Faculty, which holds meetings for the purpose of stimulating interest in the method of research in general and in the relation of fields of investigation to each other.

A Bulletin of *Research in Progress* is issued annually by the Graduate School, and contains abstracts of publications by members of the faculty, abstracts of theses presented for advanced degrees, and reports of investigations under way in the various departments.

FURTHER INFORMATION

Inquiries as to advanced work in special departments may be addressed to the heads of departments in which the student is interested. Inquiries relating to graduate work in general, admission, credits, requirements for degrees, requests for bulletins, and the like, should be addressed to the Dean of the Graduate School.

THE SUMMER SCHOOL, 1924

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NATHAN WILSON WALKER, A.B., Ed.M., *Director.*

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ALLAN WILSON HOBBS, Ph.D., *Professor of Applied Mathematics.* Mathematics.

SAMUEL HUNTINGTON HOBBS, A.M., *Associate Professor of Rural Economics and Sociology.* Rural Economics and Sociology.

MRS. SAMUEL HUNTINGTON HOBBS, *Formerly Assistant Supervisor in the Art Department,* Public Schools, Baltimore, Md. Drawing.

FRAZER HOOD, Ph.D., *Professor of Psychology and Education,* Davidson College. Education.

LEORA HOUGHTON, B.S., *Student, Teachers College,* Columbia University. Elementary Education.

GEORGE HOWARD, Jr., Ph.D., *Director of School Organization,* State Department of Education. Educational Administration.

GEORGE HOWE, Ph.D., *Professor of the Latin Language and Literature.* Latin.

ALMONTE CHARLES HOWELL, Ph.D., *Assistant Professor of English.* ENGLISH.

HOWARD RUSSELL HUSE, Ph.B., *Associate Professor of Romance Languages.* FRENCH.

A. THEODORE JOHNSON, A.M., *Assistant in English.* ENGLISH.

LILY NELSON JONES, *Supervisor of Writing,* Durham City Schools, Durham, N. C., WRITING.

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MARGARET KETCHEN, *Professor of English,* Winthrop College, GRAMMAR SCHOOL ENGLISH.

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EDGAR WALLACE KNIGHT, Ph.D., *Professor of Rural Education.* EDUCATION.

FREDERICK HENRY KOCH, A.M., *Professor of Dramatic Literature.* DRAMATIC LITERATURE.

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HARRY FRANKLIN LATSHAW, A.M., *Graduate Student,* Harvard University. EDUCATION.

GEORGE LAWRENCE, A.B., *Fellow in Sociology.* SOCIOLOGY.

HENRY DEXTER LEARNED, Ph.D., *Associate Professor of Romance Languages.* FRENCH.

STURGIS ELLENO LEAVITT, Ph.D., *Professor of Spanish.* SPANISH.

JOHN CORIDEN LYONS, A.M., *Instructor in French.* FRENCH.

THOMAS MORTIMER McKNIGHT, A.M., *Instructor in Spanish.* SPANISH.

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FRANCIS GROVER MORGAN, M.A., *Professor of Education,* Lenoir-Rhyne College. EDUCATION.

JANE MOSELEY, *Teacher,* Shelby Schools. DEMONSTRATION SCHOOL.

ESEK RAY MOSHER, Ed.D., *Professor of Education.* EDUCATION.

CLAUDIUS TEMPLE MURCHISON, Ph.D., *Professor of Applied Economics.* ECONOMICS.

JOE LEVY McEWEN, M.S., *Acting Professor of Chemistry,* Atlantic Christian College. CHEMISTRY.

JOHN HOLMAN McFADDEN, A.M., *Instructor in Psychology,* Emory University, Georgia. PSYCHOLOGY.

ALBERT RAY NEWSOME, A.M., *Assistant Professor of History.* HISTORY.

MARCUS CICERO STEPHENS NOBLE, JR., Ed.D., *Graduate Student,* Harvard University. EDUCATION.

HOWARD WASHINGTON ODUM, Ph.D., *Kenan Professor of Sociology and Director of the School of Public Welfare.* Sociology.

WILLIAM OLSEN, A.B., *Instructor in Public Speaking.* Public Speaking.

ANDREW HENRY PATTERSON, A.M., *Professor of Physics and Dean of School of Applied Science.* Physics.

WYATT ANDREW PICKENS, A.M., *Instructor in Spanish.* Spanish

ROBERT RUSSELL POTTER, A.M., *Instructor in English.* English.

ELIZABETH PRATT, *Supervisor of Music,* Junior High Schools, St. Louis, Mo., Public School Music.

ELDRED OSCAR RANDOLPH, Litt.D., *Professor of Geology,* Agricultural and Mechanical College of Texas. Geology.

WILLIAM WALTER RANKIN, Jr., A.M., *Professor of Mathematics,* Agnes Scott College, Decatur, Ga. Mathematics.

HOWARD MEACHAM REAVES, A.M., *Fellow in English.* English.

LAVEDA REED, M.A., *Graduate Student,* Teachers College, Columbia University. Grammar School History and Geography.

J. FRED RIPPY, Ph.D., *Associate Professor of History,* University of Chicago. History.

WILEY BRITTON SANDERS, M.A., *Assistant Professor of Sociology.* Sociology.

ALBERT SHAPIRO, Ph.D., *Associate Professor of Spanish.* Spanish.

MARY A. SHEEHAN, A.B., B.Ed., *Teacher of English,* Washington Junior High School, Rochester, N. Y. Grammar School English.

SAMUEL LLOYD SHEEP, M.E., *Superintendent of Schools,* Elizabeth City, N. C. Arithmetic.

HERMAN HENRY STAAB, M.A., *Assistant Professor of Romance Languages.* Spanish.

JESSE FREDERICK STEINER, Ph.D., *Professor of Social Technology.* Social Pathology.

OTTO STUHLMAN, Jr., Ph.D., *Professor of Physics.* Physics.

LONNIE RAY SIDES, A.M., *Instructor in Music.* Music.

CORYDON PERRY SPRUILL, Jr., A.B., B.Litt., *Assistant Professor of Economics.* Economics.

FRANK McKIM SWARTZ, A.B., *Instructor in Geology.* Geology.

HAYWOOD MAURICE TAYLOR, Ph.D., *Instructor in Chemistry.* Chemistry.

ELIZABETH HARDY THOMPSON, B.L.S., *In charge of Classification and Cataloging, Library.* Library Science.

HENRY ROLAND TOTTEN, Ph.D., *Assistant Professor of Botany.* Botany.

RUBIE THORNE, *Teacher,* Shelby Schools. Demonstration School.

MARION REX TRABUE, Ph.D., *Professor of Educational Administration.* Education.

OLIVER TOWLES, Ph.D., *Professor of French.* French.

WALTER DALLAM TOY, M.A., *Professor of the Germanic Languages and Literatures.* German.

FRANK CARL VILBRANDT, Ph.D., *Associate Professor of Industrial Chemistry.* Chemistry.

CARL WALKER, A.M., *Instructor in Science,* Poplar Branch High School. Geology.

NATHAN WILSON WALKER, Ed.M., *Professor of Secondary Education, and Acting-Dean of the School of Education.* Education.

PAUL JOHN WEAVER, B.A., *Director of Music.* MUSIC.

ALVIN SAWYER WHEELER, Ph.D., *Professor of Organic Chemistry.* CHEMISTRY.

ALICE V. WILSON, B.S., *Instructor in Science,* East Carolina Teacher's College. SCIENCE.

LOUIS ROUND WILSON, Ph.D., *Kenan Professor of Library Administration.* LIBRARY SCIENCE.

THOMAS JAMES WILSON III, A.M., *Instructor in French.* FRENCH.

ARTHUR SIMEON WINSOR, A.M., *Associate Professor of Mathematics.* MATHEMATICS.

GEORGE WOOD, *Assistant in Physics, Summer School.* PHYSICS.

URSULA YEAWORTH, B.S., *Assistant Supervisor of Art,* Baltimore City Schools. DRAWING.

COLLEGE COURSES

The letter s, meaning summer, is prefixed to the numbers of courses to distinguish them from the numbers employed in the annual catalogue to designate the courses of the regular college year.

The lettter N indicates that the course counts for "normal credit", i. e., credit towards a state certificate. The letter C indicates that a course is of college grade and may be counted towards the bachelor's degree in appropriate School or College of this University as indicated by the Roman numerals added after the statement of the amount of credit carried by the particular course. In this scheme of numerals I means College of Arts; II, School of Education; III, School of Commerce; IV, Premedical course, or for S.B. in Medicine; V, School of Applied Science; the abbreviation G indicates that a course so marked is of graduate grade and may be counted toward the master's degree.

A course extending through the Summer Quarter is marked *Both terms,* one offered and completed in each term of the quarter is marked *First* or *Second term.*

Botany

s 1. GENERAL BOTANY. *Five lectures and five laboratory periods a week, second term.* Credit, 1 course. C. I, II, III, IV, V. Mr. Totten.

Chemistry

s 1. GENERAL DESCRIPTIVE CHEMISTRY. *Four lectures and four hours laboratory a week, both terms.* Credit, 1 course. C. I, II, III, IV, V. First term, Mr. Wheeler and Mr. Brooks. Second term, Mr. Bell and Mr. Crockford.

s 2. GENERAL DESCRIPTIVE CHEMISTRY. *Four lectures and four hours laboratory a week, both terms.* Credit, 1 course. C. I, II, III, IV, V. First term, Mr. Vilbrandt. and Mr. Brooks. Second term, Mr. Bell and Mr. Crockford.

s 13. CHEMISTRY OF FOODS. *Five lectures a week, both terms.* Credit, 1 course. C. I, II, IV, V. First term, Mr. Vilbrandt. Second term. Mr. Edminster.

s 31. QUALITATIVE ANALYSIS. *Four hours daily, first term.* Credit, 1 course. C. I, II, IV, V. Mr. Dobbins and Mr. Brooks.

s 35. ANALYTICAL CHEMISTRY. *Nine hours a week, both terms.* Credit, 1 course. C. IV. First term, Mr. Dobbins and Mr. Brooks. Second term, Mr. Bell and Mr. Crockford.

s 41. QUANTITATIVE ANALYSIS. *Nine hours a week, both terms.* Credit, 1 course. C. I, II, IV, V. First term, Mr. Dobbins and Mr. Taylor. Second term, Mr. Bell and Mr. McEwen.

s 45. TECHNICAL QUANTITATIVE ANALYSIS. *Four hours daily, first term.* Credit, 1 course. C. I, V. Mr. Vilbrandt.

s 46. TECHNICAL QUANTITATIVE ANALYSIS. *Four hours daily, first term.* Credit, 1 course. C. I, V. Mr. Vilbrandt.

s 61. ORGANIC CHEMISTRY. *Four lectures and four hours laboratory a week, both terms.* Credit, 1 course. C. I, IV, V. First term, Mr. Wheeler and Mr. Taylor. Second term, Mr. Edminster and Mr. McEwen.

s 62. ORGANIC CHEMISTRY. *Four lectures and four hours laboratory a week, both terms.* Credit, 1 course. C. I. IV, V. First term, Mr. Wheeler and Mr. Taylor. Second term, Mr. Edminster and Mr. McEwen.

Commerce

s 1. ELEMENTARY ACCOUNTING PRINCIPLES. *Ten hours a week, first term.* Credit, 1 course. C. III. Mr. Harrell.

s 2. MANAGERIAL ACCOUNTING. *Ten hours a week, second term.* Credit, 1 course. C. III. Mr. Harrell.

s 10. BUSINESS ORGANIZATION. *Ten hours a week, second term.* Credit, 1 course. C. III. Mr. Matherly.

s 14. EMPLOYMENT MANAGEMENT. *Ten hours a week, second term,* Credit, 1 course. C. or G. III. Mr. Matherly.

Economics

s 1. GENERAL ECONOMICS. *Ten hours a week, first term.* Credit, 1 course. C. I, II, III, IV, V. Mr. Harrell.

s 2. GENERAL ECONOMICS. *Ten hours a week, second term.* Credit, 1 course. C. I, II, III, IV, V. Mr. Harrell.

s 5. ECONOMIC HISTORY. *Ten hours a week, second term.* Credit, 1 course. C. I, II, III, IV, V. Mr. Spruill.

s 10. MONEY AND CURRENCY. *Ten hours a week, first term.* Credit, 1 course. C. I, II, III, IV, V. Mr. Murchison.

s 11. BANKING AND CREDIT. *Ten hours a week, first term.* Credit, 1 course. C. I, II, III, IV, V. Mr. Murchison.

s 13. PUBLIC FINANCE. *Ten hours a week, second term.* Credit, 1 course. C or G. I, II, III, IV, V. Mr. Spruill.

s 20. RISK AND RISK BEARING. *Ten hours a week, first term.* Credit, 1 course. C. or G. I, II, III, IV, V. Mr. Atkins.

s 30. THE LABOR PROBLEM. *Ten hours a week, first term.* Credit, 1 course. C. or G. I, II, III, IV, V. Mr. Atkins.

s 40. THEORIES OF ECONOMIC REFORM. *Ten hours a week, first term.* Credit, 1 course. C. or G. I, II, III, IV, V. Mr. Carroll.

Education

s 1ab. FUNDAMENTALS OF EDUCATION. *Five hours a week, both terms.* Credit, ½ course each term. C. or G. II. Mr. Latshaw and Mr. Jordan.

s 13. CONSTRUCTIVE SUPERVISION. *Ten hours a week, first term.* Credit, 1 course. C. or G. I, II. Mr. Brogden.

s 20ab. EDUCATIONAL PSYCHOLOGY. *Five hours a week, both terms.* Credit, ½ course each. C. I, II. Mr. Jordan.

s 26 a. PUBLIC EDUCATION IN THE SOUTH. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Knight and Mr. Howard.

s 31 a. RURAL SCHOOL ORGANIZATION AND ADMINISTRATION. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Knight and Mr. Howard.

s 42 a. THE PUBLIC SCHOOL PRINCIPALSHIP. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Trabue.

s 43 a. ELEMENTS OF STATISTICAL METHODS. *Five hours a week, second term.* Credit, ½ course. C. or G. I, II. Mr. Trabue.

s 51ab. PRINCIPLES OF SECONDARY EDUCATION. *Five hours a week, both terms.* Credit, ½ course each term. C. I, II. First term, Mr. Mosher.

s 52ab. GENERAL METHODS IN SECONDARY EDUCATION. *Five hours a week, both terms.* Credit, ½ course each term. C. I, II. First term, Mr. Baker. Second term, Mr. Hood.

s 54. THE PSYCHOLOGY OF HIGH SCHOOL SUBJECTS. *Five hours a week, second term.* Credit, ½ course. C. or G. I, II. Mr. Hood.

s 56ab. MEASUREMENTS IN SECONDARY EDUCATION. *Five hours a week, both terms.* Credit, ½ course each term. C. or G. I, II. Mr. Trabue.

s 61. PROFESSIONAL COURSE FOR SUPERINTENDENTS OF SCHOOLS. *Ten hours a week, first term.* Credit, 1 course. C. or G. I, II. Mr. Howard, Mr. Knight, and Mr. Trabue.

s 62a. MEASUREMENTS IN ELEMENTARY EDUCATION. *Five hours a week, each term.* Credit, ½ course. C. or G. I, II. Mr. Trabue and Mr. Noble.

s 63. PSYCHOLOGY OF ELEMENTARY SCHOOL SUBJECTS. *Five hours a week, second term.* Credit, ½ course. C. or G. I, II. Mr. Jordan.

s 64. MENTAL MEASUREMENT. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Jordan and Mr. Latshaw.

s 101ab. PROBLEMS IN SECONDARY EDUCATION. *Four hours a week, both terms.* Credit, ½ course each term. G. Mr. Walker and Mr. Mosher.

s 103 ab. PROBLEMS IN EDUCATIONAL MEASUREMENTS. *Four hours a week, each term.* Credit, ½ course each term. G. Mr. Trabue.

s 104ab. PROBLEMS IN EDUCATIONAL ADMINISTRATION. *Four hours a week, each term.* Credit, ½ course each term. G. Mr. Howard and Mr. Trabue.

s 109. EDUCATIONAL CLASSICS. *Five hours a week, first term.* Credit, ½ course. G. Mr. Baker.

s 110. PROBLEMS OF EDUCATIONAL PSYCHOLOGY. *Four hours a week, both terms.* Credit, 1 course. G. Mr. Jordan.

s 126 a. STUDIES IN AMERICAN EDUCATION. *Five hours a week, first term.* Credit, ½ course. G. Mr. Knight.

s 140. SEMINAR IN EDUCATION. Thesis course.

s 151ab. PRINCIPLES OF SECONDARY EDUCATION. *Five hours a week, both terms.* Credit, ½ course each term. G. Mr. Mosher and Mr. Walker.

English

s 1. FRESHMAN ENGLISH. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III, IV, V. First term, Mr. Adams. Second term, Mr. Olsen.

s 1a. COMPOSITION. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III, IV, V. First term, Mr. Potter. Second term, Mr. Olsen.

s 4. ENGLISH LITERATURE. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III, IV, V. First term, Mr. Adams and Mr. Potter. Second term, Mr. Johnson.

s 11. THE TEACHING OF ENGLISH LITERATURE IN THE HIGH SCHOOL. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Axley.

s 12. THE TEACHING OF COMPOSITION IN THE HIGH SCHOOL. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Axley.

s 23. THE SHORT STORY. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Hibbard.

s 31. DRAMATIC COMPOSITION. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Denny.

s 34. DRAMATIC PRODUCTION. *Five hours a week, second term.* Credit, ½ course. C. I, II. Mr. Denny.

s 38. SHAKESPEARE: THE TRAGEDIES. *Five hours a week, both terms.* Credit, 1 course. C. or G. I, II. First term, Mr. Graves. Second term, Mr. Howell.

s 44. ELIZABETHAN DRAMA. *Five hours a week, both terms.* Credit, 1 course. C. or G. I, II. First term, Mr. Graves. Second term, Mr. Gilbert.

s 45. MILTON. *Five hours a week, second term.* Credit, ½ course. C. or G. I, II. Mr. Gilbert.

s 55a. VICTORIAN PROSE. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Booker.

s 55b. VICTORIAN POETRY. *Five hours a week, both terms.* Credit, 1 course. C. or G. I, II. Mr. Howell.

s 71b. THE MODERN DRAMA. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Koch.

s 83. CHAUCER. *Five hours a week, second term.* Credit, ½ course. C. or G. I, II. Mr. Davis.

s 91. THE TEACHING OF ENGLISH. *Five hours a week, second term.* Credit, ½ course. C. or G. I, II. Mr. Davis.

s 95a. AMERICAN LITERATURE. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Hibbard.

s 141. RESEARCH IN A SPECIAL FIELD. *Five hours a week, both terms.* Credit, ½ course each term. G. First term, Mr. Graves. Second term, Mr. Davis.

Geography

s 5. ELEMENTARY COMMERCIAL GEOGRAPHY. *Five lectures and eight hours laboratory a week, second term.* Credit, 1 course. C. III. Mr. Walker.

s 11. THE TEACHING OF GEOGRAPHY IN THE HIGH SCHOOL. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Swartz.

s 21. INDUSTRIAL GEOGRAPHY. *Five lectures and eight hours laboratory a week, first term.* Credit, 1 course. C. I, II. Mr. Swartz.

Geology

s 1. INTRODUCTION TO GEOLOGY. *Six lectures and eight hours laboratory a week, first term.* Credit, 1 course. C. I, II, III, IV. Mr. Randolph.

s 2. HISTORICAL GEOLOGY. *Six lectures and eight hours laboratory a week, first term.* Credit, 1 course. C. I, II, III, IV. Mr. Randolph.

s 3. ELEMENTARY MINERALOGY. *Fifteen hours a week, second term.* Credit, 1 course. C. I, II, V. Mr. Walker.

s 23. ORIGIN AND NATURE OF SOILS. *Ten hours a week, second term.* Credit, 1 course. C. I, II. Mr. Cobb.

s 24. ADVANCED COURSE IN SOILS. *Ten hours a week, second term.* Credit, 1 course. C. I, II. Mr. Cobb.

German

s 1. ELEMENTARY COURSE. *Five hours a week, first term.* Credit, ½ term. E. or C. I, II. Mr. Metzenthin.

s 3. ADVANCED COURSE. *Five hours a week, first term.* Credit, ½ course. C. I, II, III, IV, V. Mr. Brown.

s 4. ADVANCED COURSE. *Five hours a week, first term.* Credit, ½ course. C. I, II, III, IV, V. Mr. Toy.

s 15. TEACHERS' COURSE. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Metzenthin.

s 22. GERMAN LITERATURE. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II, III, IV. Mr. Toy.

Greek

s 1a. BEGINNERS' GREEK. *Five hours a week, first term.* Credit, ½ course. E. or C. I, II. Mr. Bernard.

s 14. MASTERPIECES OF GREEK LITERATURE IN ENGLISH TRANSLATION. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Bernard.

s 61. ART HISTORY. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Bernard.

History and Government

History

s 1a. FOUNDATIONS OF MODERN HISTORY. *Five hours a week, first term.* Credit, ½ course. C. I, II, III, IV. Mr. Connor.

s 1b. FOUNDATIONS OF MODERN HISTORY. *Five hours a week, second term.* Credit, ½ course. C. I. II, III, IV. Mr. Higby.

s 2a. FOUNDATIONS OF MODERN HISTORY. *Five hours a week, first term.* Credit, ½ course. C. I, II, III, IV. Mr. Rippy.

s 2b. FOUNDATIONS OF MODERN HISTORY. *Five hours a week, second term.* Credit, ½ course. C. I, II, III, IV. Mr. Newsome.

s 28a. HISTORY OF THE UNITED STATES, 1789-1829. *Five hours a week, second term.* Credit, ½ course. C. or G. I, II. Mr. Newsome.

s 29a. RECONSTRUCTION. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Hamilton.

s 42a. MODERN EUROPE. *Five hours a week, second term.* Credit, ½ course. C. or G. I, II. Mr. Higby.

s 42b. MODERN EUROPE. *Five hours a week, second term.* Credit, ½ course. C. or G. I, II. Mr. Higby.

s 44. THE UNITED STATES AND MEXICO. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Rippy.

s 45. HISPANIC AMERICA IN WORLD POLITICS. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Rippy.

s 51a. COLONIAL AMERICAN HISTORY. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Connor.

s 59. HISTORY OF NORTH CAROLINA. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Connor.

s 63. THE HISTORY OF THE WEST, 1815-1860. *Five hours a week, second term.* Credit, ½ course. C. or G. I, II. Mr. Newsome.

s 109. SEMINAR. Research in a Special Field under the direction of a member of the department.

Government

s 8. THE CONSTITUTION OF THE UNITED STATES. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Hamilton.

s 109. RESEARCH in a special field under the direction of a member of the department.

Latin

s 1. CICERO'S ESSAYS. *Ten hours a week, first term.* Credit, 1 course. C. I, II. Mr. Howe.

s 3. CICERO. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Harrer.

s 4. VIRGIL. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Harrer.

s 11. THE TEACHING OF LATIN IN THE HIGH SCHOOL. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Howe.

s 15. ADVANCED COURSE. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Harrer.

Library Science

s 1. LIBRARY ORGANIZATION AND METHODS. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Wilson.

s 2. CLASSIFICATION AND CATALOGUING. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Wilson and Miss Thompson.

s 3. THE USE OF BOOKS. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Wilson.

Mathematics

NO. SOLID GEOMETRY. *Five hours a week, first term.* Credit, 1 hour. E. Mr. Hobbs.

s 2. PLANE TRIGONOMETRY. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III. Mr. Hobbs.

s 1. MATHEMATICALANALYSIS I. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III, IV. Mr. Winsor.

s 2. MATHEMATICAL ANALYSIS II. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III, IV. First term, Mr. Hobbs. Second term, Mr. Lasley.

s 3. ANALYTIC GEOMETRY. *Five hours a week, both terms.* Credit, 1 course. C. I, II. First term, Mr. Winsor. Second term, Mr. Eagles.

s 4. DIFFERENTIAL CALCULUS. *Five hours a week, both terms.* Credit, 1 course. C. I, II. First term, Mr. Hobbs. Second term, Mr. Eagles.

s 5. INTEGRAL CALCULUS. *Five hours a week, both terms.* Credit, 1 course. C. I, II. First term, Mr. Winsor. Second term, Mr. Lasley.

s 13. THEORY OF EQUATIONS. *Five hours a week, both terms.* Credit, 1 course. C. I, II. First term, Mr. Winsor. Second term, Mr. Eagles.

s 50. THE HISTORY OF MATHEMATICS. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Rankin.

s 51. THE TEACHING OF MATHEMATICS. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Rankin.

s 52. ELEMENTARY PROJECTIVE GEOMETRY. *Five hours a week, second term.* Credit, ½ course. C. or G. I, II. Mr. Lasley.

Music

s 1. GENERAL PROBLEMS OF MUSIC SUPERVISION. *Five hours a week, first term.* Credit, ½ course. C. Mr. Gildersleeve.

s 2. PUBLIC SCHOOL MUSIC METHODS, PRIMARY GRADES. *Five hours a week, Sections* I, II, *first term, Section* III, *second term.* Credit, ½ course. C. Section I, II, Miss Pratt. Section III, Miss Hayes.

s 3. PUBLIC SCHOOL MUSIC METHODS, GRAMMAR GRADES. *Five hours a week, both terms.* Credit, ½ course. C. First term, Miss Pratt. Second term, Miss Hayes.

s 4. HIGH SCHOOL MUSIC. *Five hours a week, first term.* Credit ½ course. C. Mr. Gildersleeve.

s 5. SIGHT—SINGING AND EAR—TRAINING, ELEMENTARY. *Five hours a week, second term.* Credit, ½ course. C. I, II. Miss Pratt and Miss Hayes.

s 6. SIGHT-SINGING AND EAR-TRAINING, ADVANCED. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mrs. Gildersleeve.

s 7. APPRECIATION OF MUSIC. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Hard.

s 8. HISTORY OF MUSIC. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Hard.

s 9. KINSCELLA CLASS METHOD OF PIANO INSTRUCTION. *Special Classes.* Miss Kinscella.

Physics

s 1. GENERAL PHYSICS. *Twelve hours a week, first term.* Credit, 1 course. C. I, II, III, IV, V. Mr. Patterson and Mr. Stuhlman.

s 2. GENERAL PHYSICS. *Fourteen hours a week, second term.* Credit, 1 course. C. I, II, III, IV, V. Mr. Dike.

s 13. TEACHER'S COURSE. *Ten hours a week, first term.* Credit, 1 course. C. Mr. Patterson and Mr. Stuhlman.

s 9. OPTICS. *Twelve hours a week, first term.* Credit, 1 course. C. or G. Mr. Stuhlman.

Psychology

s 1. GENERAL PSYCHOLOGY. *Ten hours a week, first term.* Credit, 1 course. C. I, II, III, IV, V. Mr. Dashiell and Mr. McFadden.

s 2. GENERAL PSYCHOLOGY. *Ten hours a week, second term.* Credit, 1 course. C. I, II, III, IV, V. Mr. Dashiell.

s 26a. CHILD PSYCHOLOGY. *Five hours a week, first term.* Credit ½ course. C. or G. I, II, III, IV, V. Mr. Crane.

s 47a. MENTAL EXAMINATION METHODS. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II, III, IV, V. Mr. Crane.

s 104. ADVANCED GENERAL PSYCHOLOGY. *Ten hours a week, first term.* Credit, 1 course. G. Mr. Dashiell.

Romance Languages

French

s 1. ELEMENTARY COURSE. *Ten hours a week, first term.* Credit, 1 course. E. Mr. Learned.

s 2. ELEMENTARY COURSE. *Ten hours a week, first or second term.* Credit, 1 course. E. First term, Mr. Lyons. Second term, Mr. Haronian.

s 3ab. A CONTINUATION OF FRENCH 1-2. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III, IV, V. First term, Mr. Wilson. Second term, Mr. Haronian.

s 4ab. A CONTINUATION OF FRENCH S3. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III, IV, V. First term, Mr. Staab. Second term, Mr. Huse.

s 5ab. INTRODUCTION TO THE STUDY OF FRENCH LITERATURE. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III, IV. First term, Mr. Lyons. Second term, Mr. Huse.

s 6ab. MODERN FRENCH LITERATURE. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III, IV. Mr. Towles.

s 8. TEACHER'S COURSE. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Dey.

s 15. FRENCH ROMANTIC POETS. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Dey.

s 105ab. THE SIXTEENTH CENTURY. *Five hours a week, both terms.* Credit, 1 course. G. Mr. Towles.

s 121ab. OLD FRENCH. *Five hours a week, both terms.* Credit, 1 course. G. First term, Mr. Learned. Second term, Mr. Towles.

Spanish

s 1ab. ELEMENTARY COURSE. *Five hours a week, both terms.* Credit, 1 course. E. Mr. Shapiro.

s 2ab. ELEMENTARY COURSE. *Five hours a week, both terms.* Credit, 1 course. E. First term, Mr. Shapiro. Second term, Mr. Pickens.

s 3ab. A CONTINUATION OF SPANISH 1-2. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III, V. First term, Mr. Staab. Second term, Mr. McKnight.

s 4ab. A CONTINUATION OF SPANISH 3. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III, V. First term, Mr. Staab. Second term, Mr. McKnight.

s 5ab. MASTERPIECES OF SPANISH LITERATURE. *Five hours a week, both terms.* Credit, 1 course. C. I, II, III. First term, Mr. Leavitt. Second term, Mr. McKnight.

s 8. TEACHER'S COURSE. *Five hours a week, first term.* Credit, ½ course. C. I, II. Mr. Shapiro.

s 11a. THE THEATER OF LOPE DEVEGA. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Leavitt.

s 11b. LOPE'S CONTEMPORARIES. *Five hours a week, second term.* Credit, ½ course. C or G. Mr. Shapiro.

s 19a. EARLY SPANISH PROSE FICTION. *Five hours a week, first term.* Credit, ½ course. C or G. I, II. Mr. Leavitt.

s 19b. SPANISH PROSE FICTION OF THE SEVENTEENTH CENTURY. *Five hours a week, second term.* Credit, ½ course. C or G. I, II. Mr. Shapiro.

Rural Social Economics

s 11. RURAL SOCIAL PROBLEMS. *Five hours a week, second term.* Credit, ½ course. C or G. I, II. Mr. Hobbs.

s 12. RURAL ECONOMICS. *Five hours a week, first term.* Credit, ½ course. C or G. I, II. Mr. Hobbs.

s 13. LABORATORY COURSE IN RURAL SOCIAL PROBLEMS. *Five hours a week, first term.* Credit, ½ course. C or G. I, II. Mr. Hobbs.

s 14. LABORATORY COURSE IN RURAL SOCIAL PROBLEMS. *Five hours a week, second term.* Credit, ½ course. C. or G. I, II. Mr. Hobbs.

s 20. NORTH CAROLINA: ECONOMIC AND SOCIAL. *Five hours a week, first term.* Credit, ½ course. C or G. I, II. Mr. Hobbs.

Sociology

s 1ab. PRINCIPLES OF SOCIOLOGY. *Five hours a week, both terms.* Credit, 1 course. C. I, II. Mr. Meyer.

s 2b. ADVANCED PRINCIPLES OF SOCIOLOGY. *Five hours a week, second term.* Credit, ½ course. C or G. I, II. Mr. Odum and Mr. Meyer.

s 4ab. EDUCATIONAL SOCIOLOGY. *Five hours a week, both terms.* Credit, 1 course. C or G. I, II. Mr. Odum.

s 8a. PRINCIPLES OF COMMUNITY ORGANIZATION. *Five hours a week, first term.* Credit, ½ course. C or G. I, II. Mr. Steiner.

s 10ab. THE STUDY OF SOCIAL PROBLEMS. *Five hours a week, both terms.* Credit, 1 course. C or G. I, II. Mr. Odum and Mr. Meyer.

s 11a. THE FAMILY AND ITS PROBLEMS. *Five hours a week, first term.* Credit, ½ course. C or G. I, II. Mr. Steiner.

s 14a. FAMILY CASE WORK. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Sanders and Mr. Lawrence.

s 24ab. THE PHILOSOPHY OF PLAY AND RECREATION. *Five hours a week, both terms.* Credit, ½ course each term. C. or G. I, II. Mr. Meyer.

s 28a. JUVENILE DELINQUENCY. *Five hours a week, first term.* Credit, ½ course. C. or G. I, II. Mr. Sanders.

s 123ab. ADVANCED SOCIAL THEORY AND HISTORICAL SOCIOLOGY. *Five hours a week, both terms.* Credit, 1 course. C. or G. I, II. Mr. Odum.

Zoology

s 10. MARINE INVERTEBRATE ZOOLOGY. *Field work.* Credit, 1 course. C. or G. I, II, IV, V. Given at Beaufort, N. C. Mr. George.

NORMAL COURSES OF INSTRUCTION

Education

n 1. INTRODUCTION TO TEACHING. *Five hours a week, first term.* Credit, 1 course. N. Miss Forman.

n 2. ELEMENTARY SCHOOL PRACTICE. *Five hours a week, first term.* Credit, 1 course. N. Miss Forman.

n 3. SPECIAL PRIMARY METHODS: READING. *Five hours a week, both terms.* Credit, 1 course each term. N. First term, Miss Beust. Second term, Miss Hatcher.

n 4. SPECIAL PRIMARY METHODS: LANGUAGE, STORY TELLING, AND DRAMATIZATION. *Five hours a week, both terms.* Credit, 1 course each term. N. First term, Miss Edmondson. Second term, Miss Hatcher.

n 5. SPECIAL PRIMARY METHODS: PRIMARY NUMBER AND PROJECTS. *Five hours a week, first term.* Credit, 1 course. N. Miss Houghton.

n 6. PRIMARY CURRICULUM. *Five hours a week, first term.* Credit, 1 course. N. Miss Edmondson.

n 7. OBSERVATION AND PARTICIPATION. *Five hours a week, first term.* Credit, 1 course. N. Miss Forman.

n 8. SCHOOL MANAGEMENT. *Five hours a week, first term.* Credit, 1 course. N. Mr. Griffin and Mr. Briggs.

n 9. MEASUREMENTS IN ELEMENTARY EDUCATION. *Five hours a week, first term.* Credit, 1 course. N. Mr. Trabue and Mr. Noble.

n 10. GRAMMAR GRADE METHODS. *Five hours a week, both terms.* Credit, 1 course each term. N. First term, Miss Sheehan. Second term, Miss Ketchen.

n 11. GRAMMAR GRADE ARITHMETIC. *Five hours a week, both terms.* Credit, 1 course each term. N. First term, Miss Houghton. Second term, Mr. Sheep.

n 12. GRAMMAR GRADE CURRICULUM. *Five hours a week, second term.* Credit, 1 course. N. Miss Hatcher.

n 13. GRAMMAR GRADE METHOD: HISTORY AND GEOGRAPHY. *Five hours a week, both terms.* Credit, 1 course each term. N. First term, Miss Reed. Second term, Miss Carney.

English

n 6. LITERATURE OF GRAMMAR GRADES. *Five hours a week, both terms.* Credit, 1 course each term. N. First term, Miss Sheehan. Second term, Miss Ketchen.

Geography

n 1. PRINCIPLES OF GEOGRAPHY. *Five hours a week, second term.* Credit, 1 course. N. Miss Carney.

n 2. GEOGRAPHY AND NATURE STUDY FOR PRIMARY GRADES. *Five hours a week, first term.* Credit, 1 course. N. Miss Reed.

n 3. GEOGRAPHY OF NORTH AMERICA. *Five hours a week, both terms.* Credit, 1 course each term. N. First term, Miss Reed. Second term, Miss Carney.

n 4. TYPES OF INDUSTRIES. *Five hours a week, second term.* Credit, 1 course. N. Miss Carney.

History

n 1. EUROPEAN BACKGROUND. *Five hours a week.* Credit, 1 course. N.

n 2a. AMERICAN HISTORY. Credit, 1 course. N.

n 3b. AMERICAN HISTORY. Credit, 1 course. N.

n 4. NORTH CAROLINA HISTORY. Credit, 1 course. N.

Music

n 1. ELEMENTS OF MUSIC. Credit, ½ course. N.

n 2. MUSIC FOR PRIMARY GRADES. Credit, ½ course. N.

n 3. MUSIC FOR GRAMMAR GRADES. Credit, ½ course. N.

Physical Education

n 1. PLAYS AND GAMES. *Five hours a week, first term.* Credit, ½ course. N. Miss Coble.

n 2. PLAYS AND GAMES. *Five hours a week, first term.* Credit, ½ course. N. Miss Coble.

n 3. PLAYS AND GAMES. *Five hours a week, first term.* Credit, ½ course. N. Miss Coble.

n 4. PHYSICAL EDUCATION FOR GIRLS IN THE HIGH SCHOOL. *Five hours a week, first term.* Credit, ½ course. C. II. Mr. Meyer and Miss Coble.

Psychology

n 1. CHILD STUDY. *Five hours a week, first term.* Credit, 1 course. I. Miss Edmonson.

n 2. EDUCATIONAL PSYCHOLOGY. *Five hours a week, second term.* Credit, 1 course. N. Mr. Mosher.

Science

n 1. PERSONAL AND SCHOOL HYGIENE. *Five hours a week, first term.* Credit, 1 course. N. Miss Wilson.

n 2. GENERAL BIOLOGY. *Five hours a week, first term.* Credit, 1 course. N. Miss Wilson.

n 3. BIOLOGY: PLANTS. *Five hours a week, first term.* Credit, 1 course. N. Miss Wilson.

School Arts

n 1. FUNDAMENTALS OF DRAWING. *Five hours a week, first term.* Credit, ½ course. N. Mrs. Hobbs and Miss Yeaworth.

n 2. DRAWING FOR PRIMARY GRADES. *Five hours a week, first term.* Credit, ½ course. N. Mrs. Hobbs and Miss Yeaworth.

n 3. DRAWING FOR GRAMMAR GRADES. *Five hours a week, first term.* Credit, ½ course. N. Mrs. Hobbs and Miss Yeaworth.

n 4. INDUSTRIAL ARTS. *Five hours a week, first term.* Credit, ½ course. N. Miss Yeaworth.

Sociology

n 1. SOCIAL PROBLEMS. *Five hours a week, first term.* Credit, 1 course. N.

Writing

n 1. WRITING: SKILL. *Five hours a week, both terms.* Credit, ½ course. N. First term, Miss Jones. Second term, Miss Baldon.

n 2. WRITING: TECHNIQUE. *Five hours a week, both terms.* Credit, ½ course each term. N. First term, Miss Jones. Second term, Miss Baldon.

THE UNIVERSITY EXTENSION DIVISION

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*
CHESTER DEFOREST SNELL, B.H., B.S., *Director.*
EDGAR RALPH RANKIN, A.M., *Associate Director.*
GEORGE BASKERVILLE ZEHMER, A.M., *Associate Director.*
LOUISE MANNING VENABLE, A.B., *Executive Secretary.*

BUREAU CHIEFS

GEORGE BASKERVILLE ZEHMER, A.M., *Class Instruction.*
MARY LOUISA COBB, A.B., *Correspondence Instruction.*
NELLIE ROBERSON, A.B., *Public Discussion.*
MORGAN FISHER VINING, A.B., *Lectures and Short Courses; Visual Instruction.*
FREDERICK HENRY KOCH, A.M., *Community Drama.*
WALTER JEFFRIES MATHERLY, A.M., *Commercial and Industrial Relations.*
PAUL JOHN WEAVER, B.A., A.A.G.O., *Community Music.*
HOWARD WASHINGTON ODUM, Ph.D., *Municipal Information and Research.*
EUGENE CUNNINGHAM BRANSON, A.M., Litt.D., *Economic and Social Surveys.*
HAROLD DIEDRICH MEYER, A.M., *Recreation and Community Organization.*
EDGAR RALPH RANKIN, A.M., *High School Debating and Athletics.*
WILLIAM CHAMBERS COKER, Ph.D., *Design and Improvement of School Grounds.*
NATHAN WILSON WALKER, Ed.M., *Educational Service and Research.*

The University Extension Division offers service to the people of the State through the following Bureaus:

I. BUREAU OF CLASS INSTRUCTION

Extension classes in regular University subjects are held in communities throughout the State. They are taught by regular University professors and when all requirements are met give the same credit as residence work. Those not wishing degree credit are also eligible to take extension classes. The classes usually meet one evening a week for sixteen weeks, for which a half course or two semester hours of degree credit may be earned. Fifteen is the minimum number for which a class will be organized. The fee for each class is ten dollars.

The first semester classes start the last week in September and the second semester classes begin about February first. An individual or group wishing to organize an extension class should make written application to the University Extension Division, giving the following information: probable number of enrollments, general type of persons who wish to join the class, course desired, when and where the class wishes to meet, and who will have charge of local arrangements.

Postgraduate medical courses for practicing physicians are held each summer in from twelve to twenty-four centers of the State. Pediatrics, Internal Medicine, and Pathology have thus far been given successfully. The Extension Division employs the best available instructors in the United States to give these courses. Each instructor is employed for a period of twelve weeks and gives twelve lectures and clinics in each of six centers arranged on a circuit so that one may be reached each day. The fee for each course is thirty dollars. Postgraduate diplomas or certificates are given to each physician attending nine or more of the twelve lectures and clinics.

In order to conserve space, all other information and regulations concerning extension class work are not presented here but may be secured by sending a written request to the University Extension Division for a copy of the Extension Class Catalog.

COURSES OF INSTRUCTION

(Note: All courses give a half course or two semester hours credit. Descriptions of courses, names of instructors, and limitations of credit will be found in the Extension Class Catalog.)

Economics

1a. General Economics. 1b. General Economics.

Commerce

1a. Accounting Principles. 1b. Accounting Principles. 11a. Industrial Management. 11b. Industrial Management. 14. Employment Management. 20a. Salesmanship. 20b. Salesmanship. 22a. Advertising. 22b. Advertising. 31. Banking Practice. 46. Foreign Trade Practice. 60a. Business Law. 60b. Business Law.

Education

1a. Fundamentals of Education. 1b. Fundamentals of Education. 2a. Principles of Education. 2b. Pinciples of Education. 20a. Educational Psychology. 20b. Educational Psychology. 26a. Public School Education in the South. 26b. Public School Education in the South. 31a. Rural School Organization and Administration. 31b. Rural School Organization and Administration. 36a. Historic Foundations of Modern Education. 36b. Historic Foundations of Modern Education. 37a. Public Education in the United States. 37b. Public Education in the United States. 42a. The Public School Principalship. 42b. The Public School Principalship. 43a. Elements of Statistical Methods. 43b. Elements of Statistical Methods. 46a. Classroom Management. 46b. Classroom Management. 51a. Principles of Secondary Education. 51b. Principles of Secondary Education. 52a. General Methods in Secondary

Education. 52b. General Methods in Secondary Education. 55a. Social Policy and Education. 55b. Social Policy and Education. 62a. Tests and Measurements. 62b. Tests and Measurements. 63. Psychology of Elementary School Subjects.

Engineering

2a. Mechanical Drawing. 2b. Mechanical Drawing.

English

1a. Freshman English. 1b. Freshman English. 3a. English Literature. 3b. English Literature. 16a. Public Speaking. 16b. Public Speaking. 20. Business English. 21a. Advanced Composition. 21b. Advanced Composition. 59a. American Literature. 59b. American Literature. 71a. The Modern Drama. 71b. The Modern Drama.

History

1a. Foundations of Modern History. 1b. Foundations of Modern History. 43a. Modern Europe. 43b. Modern Europe. 51a. Colonial American History. 51b. Colonial American History. 54a. The Ante-Bellum Period. 54b. The Ante-Bellum Period. 59a. History of North Carolina. 59b. History of North Carolina.

Government

1a. United States Government. 1b. United States Government.

Mathematics

1a. Mathematical Analysis 1. 1b. Mathematical Analysis 1. 1Ea. Unified Mathematics for Engineers. 1Eb. Unified Mathematics for Engineers. 51. The Teaching of Mathematics.

Music

2. Appreciation of Music. 3. Appreciation of Music. 10. History of Music. 11. History of Music.

Philosophy

1a. History of Philosophy. 1b. History of Philosophy. 4a. Elementary Aesthetics. 4b. Elementary Aesthetics.

Physics

13a. Teachers Course. 13b. Teachers Course. 14a. Astronomy. 14b. Astronomy.

Psychology

1a. General Psychology. 1b. General Psychology. 22a. The Psychology of Learning. 22b. The Psychology of Learning. 26a. Child Psychology. 26b. Child Psychology.

French

1a. Elementary Course. 1b. Elementary Course.

Spanish

1a. Elementary course. 1b. Elementary Course.

Rural Sociology

20a. North Carolina Economic and Social. 20b. North Carolina Economic and Social.

Sociology

1a. Introduction to Sociology. 1b. Introduction to Sociology. 4a. Educational Sociology. 4b. Educational Sociology. 8. Principles of Community Organization. 9. Administration of Community Work. 10a. The Study of Social Problems. 10b. The Study of Social Problems. 23. The Theory of Play and Recreation. 24. The Practice of Play and Recreation.

II. BUREAU OF CORRESPONDENCE INSTRUCTION

All information and regulations concerning correspondence courses offered by the University are contained in the Correspondence Instruction Catalog issued separately. A copy may be secured by addressing the University Extension Division.

COURSES OF INSTRUCTION

(KEY: [H] Half course, two semester hours, fee $6.50; [W] Whole course, three and one-third semester hours, fee $12.00. See Correspondence Instruction Catalogue for limitations of credit.)

Economics

1. General Economics (W). 2. General Economics (W). 5. Economic History (W), 24. Principles of Marketing (W), 30. Labor Problems (W).

Commerce

1. Accounting Principles (W). 20. Salesmanship (H). 22. Advertising (W). 36. Investments (W). 38. Insurance (W). 60. Business Law (W).

Education

1a. Fundamentals of Education (H). 1b. Fundamentals of Education (H). 2a. Principles of Education (H). 2b. Principles of Education (H). 20a. Educational Psychology (H). 20b. Educational Psychology (H). 26. Public School Education in the South (W). 31. Rural Education (W). 36a. Historic Foundations of Modern Education (H). 36b. Historic Foundations of Modern Education (H). 37a. Public Education in the United States (H). 37b. Public Education in the United States (H). 42a. The Public School Principalship (H). 42b. The Public School Principalship (H). 46a. Classroom Management (H). 51a. Principles of Secondary Education (H). 51b. Principles of Secondary Education (H). 52a. General Methods in Secondary Education (H). 52b. General Methods in Secondary Education (H). 55. Social Policy and Education (W). 62a. Tests and Measurements in Elementary Education (H). 62b. Tests and Measurements in Elementary Education (H).

On the credit given for the courses in the Primary and Grammar Grade work and the General Courses please consult carefully the Correspondence Instruction Catalogue.

Education, Primary Curriculum

4. Special Primary Methods (H). 5. Special Primary Methods (H). 6. Primary Curriculum (H).

Education, Grammar Grade Curriculum

10. Grammar Grade Methods (H). 12. Grammar Grade Curriculum (H). 13. Grammar Grade Methods (H).

Education, General Courses

Introduction to School Management (H). English Composition (W). European Backgrounds (W). Plays and Games (H). Educational Psychology (H). Social Problems (H).

English

1. Freshman English (W). 3. Sophomore English (W). 4. Sophomore English (W). 6. English of Commerce. 7. The Short Story (W). 8. Modern Drama (H). 9. The Contemporary American Short Story (H). 16a. Public Discussion and Debate (H). 31. Dramatic Composition (W). 91. The Teaching of English (W).

Geology

1. Introduction to Geology (W). 21. Industrial and Commercial Geography (W). 22. Industrial and Commercial Geography (W).

German

21. Advanced German (W).

History

1. Foundations of Modern History, Part 1 (W). 2. Foundations of Modern History, Part II (W). 3. English History (W). 14. Modern European History (W). 26. The Teaching of History in the High School (H). 51a. Colonial American History (H). 51b. Colonial American History (H).

Government

1. Comparative Government, Part I (W). 2. Comparative Government, Part II (W).

Latin

1. Readings in Roman Literature (W). 8. Latin Composition (W).

Mathematics

1. Mathematical Analysis I (W). 2. Mathematical Analysis II (W). 3. College Algebra (W). 4. Trigonometry (W). 51. The Teaching of Mathematics in the High School (H).

Music

1. Theory of Music (Introductory) (H). 10. History of Music, Part I (H). 11. History of Music Part II (H). 20. Harmony. 30. Public School Music (W).

Philosophy

1. History of Philosophy (W). 2. History of Philosophy (W). 4. Elementary Aesthetics (H).

Psychology

1. General Psychology (W). 2. General Psychology (W). 45. The Psychology of Subnormal Children (W).

French

4. French Composition (W). 6. Masterpieces of French Literature (W).

Spanish

3. Spanish Composition (W). 4. Spanish Composition (W). 5. Masterpieces of Spanish Literature (W). 6. Continuation of Spanish 5 (W).

Rural Sociology

1. Economics and History of Agriculture (W). 4. Farm Tenancy (W). 20. North Carolina: Economic and Social (W). 21. Agricultural Coöperation (W).

Sociology

1. Introduction to Sociology (W). 4a. Educational Sociology (H). 4b. Educational Sociology (H). 7a. The Small Town and the Mill Village (H). 8. Community Organization (H). 10a. The study of Social Problems (H). 12. Crime and Its Social Treatment (W). 14. Family Problems (H). 23. The Theory of Play and Recreation (H). 24. The Practice of Play and Recreation (H).

III. BUREAU OF PUBLIC DISCUSSION

The aim of the Bureau of Public Discussion is to encourage discussion of current political, social, and economic problems, as well as to assist in the study of good literature. Reference material is supplied for such study.

For convenience in conducting the work the services of the Bureau of Public Discussion are now divided into two sections. The Women's Clubs Section renders assistance with programs and reference material, usually of a literary nature, to women's clubs, for which service a small charge is made. The Library Extension Service Section renders assistance with books and package libraries to schools, both to students and teachers, as well as to other individuals not organized in group study, for which service no charge is made. This material is usually on current problems of a political, social, or economic nature.

IV. BUREAU OF LECTURES AND SHORT COURSES

The University conducts a lecture bureau for the purpose of aiding schools, women's clubs, Rotary and Kiwanis clubs, and other organizations in obtaining speakers to discuss with them the problems incident to their daily activities and to interest them in those things which look to the upbuilding of the State and the cultivation of the finer things of the spirit. Addresses for special occasions, such as school and college commencements, are also supplied upon application.

No fee for lecture service is charged but the traveling and incidental expenses of the lecturer are defrayed by the organization for which the lecture is made.

The Division publishes a bulletin containing full information as to subjects and lectures, copies of which may be secured upon application.

The University has from time to time held at Chapel Hill short courses or institutes for select groups. A short course or institute is an intensive training program or course ranging in duration from one day to two weeks. The program consists of a specialized series of lectures, discussions, and demonstrations directed by leading speakers and teachers secured from the faculty of the University and from the state and country at large. In years past the following institutes have been held at the University: good roads, county life, drama, state and county council. Short courses were offered to high school athletic coaches, playground supervisors, and welfare workers.

In addition to those mentioned above, other organizations or groups for which the University Extension Division will be glad to consider organizing a short course, institute, special meeting, or convention, are: Doctors, editors, bankers, merchants, manufacturers, secretaries of chambers of commerce, officers of parent-teacher associations, women's clubs, school superintendents, school principals, and others having a common interest.

Further information may be secured by writing to the Bureau of Lectures and Short Courses, Extension Division, Chapel Hill, N. C.

V. BUREAU OF COMMUNITY DRAMA

The bureau aims to encourage the writing of original plays drawn from tradition and local history and also from the present-day life of the people. The services of a trained director will be supplied, where practicable, either to produce a play or to give advice concerning the final details of scenery, costuming, make-up, etc. Field representatives will be sent out to advise concerning stage construction and equipment.

The bureau will undertake the direction of the writing of communal plays based on history and tradition. It will aid any community in securing an expert dramatic director who will take entire charge of the production if desired. The Library Extension Service may be utilized by any citizen of the state in selecting plays and pageants and procuring reference books on production, as well as historical material for the writing of community pageants and plays.

VI. BUREAU OF COMMERCIAL AND INDUSTRIAL RELATIONS

This bureau is under the supervision of the School of Commerce of the University. The members of the staff are glad to coöperate with the manufacturing, banking, and commercial interests of the State in the solution of any problems which may be brought to their attention. Laboratories, statistical information, research methods, interpretative devices, and expert opinion are available for use by any worthy individual or organization. Problems may be submitted for study and opinion, or arrangements may be made for a member of the staff to visit the establishment or community for first-hand observation and study.

VII. BUREAU OF COMMUNITY MUSIC

The head of the Department of Music is available for the following services: (1) Leadership for community sings; (2) formation of community choruses; (3) lectures on public school and community music; (4) piano and organ recitals.

VIII. BUREAU OF VISUAL INSTRUCTION

The service of this bureau is gradually being developed to include loan to schools, county groups and individuals of the following visual aid materials: lantern slides, charts, and instructional exhibits. At

present nearly two thousand lantern slides, mostly colored, with written explanations accompanying each set, are available. The sets cover many of the foreign countries and some on America. A list of subjects will be sent upon request.

IX. BUREAU OF MUNICIPAL INFORMATION AND RESEARCH

This bureau answers specific inquiries with reference to legislation, charters, and other matters covering city and town government. Through the Library Extension Service bibliographies, reading lists, and books on municipal subjects are loaned. The bureau also undertakes to advise town and city officials concerning specific problems, and to direct them to sources of assistance.

The North Carolina Municipal Association at a recent meeting passed a resolution endorsing and pledging coöperation with this bureau and a new arrangement will be entered into when a full-time chief is employed to develop this service more fully. It is planned to have this bureau functioning with a complete service by June, 1925.

X. BUREAU OF ECONOMIC AND SOCIAL SURVEYS

Before a definite movement is inaugurated to upbuild a county or community from an economic and social standpoint, it is necessary to have at hand an accurate summary of existing facts. What is known as the "social survey" is the best method for securing such facts.

The Department of Rural Social Science of the University for years has been collecting data on social and economic conditions in North Carolina. This material is available through loans from the library, articles in the *News Letter,* and bulletins which record the results of a number of county economic and social surveys. The *News Letter,* which is edited by this department, appears fifty times each year.

During the year a large number of county and State-wide studies are made involving no small amount of time and drudgery, and thousands of letters are written in answer to inquiries about life and business in North Carolina.

XI. BUREAU OF RECREATION AND COMMUNITY ORGANIZATION

This bureau offers service along the line of community organization, recreation, student service, and child welfare. The School of Public Welfare is in charge of this work. Bibliographies and reading lists on the subject of sociology, community organization, etc., are provided upon request. Plans for community councils and coöperative work are suggested when desired. The services of field agents are available to visit towns with reference to special programs of recreation or community organization.

XII. BUREAU OF HIGH SCHOOL DEBATING AND ATHLETICS

The University Extension Division through this bureau offers a stimulating service to the high schools of the state in debate and athletics. The High School Debating Union is the medium through which assistance is offered in debate, and the high school athletic contests, five in number, provide the avenue for assistance in the development of athletics.

The High School Debating Union was organized in 1912—13 and has rounded out eleven years of successful service. Two hundred and fifty high schools, grouped in triangles, discuss some important question each year. The schools winning both debates send their teams to the University to compete during high school week in the final contest for the Aycock Memorial Cup.

The annual state athletic contests in football, basketball, track, baseball, and tennis are under the supervision of the North Carolina High School Athletic Association. The public schools compete in groups, then for the honor of representing the eastern and western sections of the state, and the teams winning the sectional contests meet at Chapel Hill in the finals.

XIII. BUREAU OF DESIGN AND IMPROVEMENT OF SCHOOL GROUNDS

The principal function of the Bureau of Design and Improvement of School Grounds is to promote the beautification of public school grounds in North Carolina. However, designs and planting plans will also be prepared for church schools, churches, and charitable institutions.

The work of this bureau is carried on by visits of a field agent upon request, the preparation of specific plans, and the sending out of bulletins.

XIV. BUREAU OF EDUCATIONAL SERVICE AND RESEARCH

This bureau is maintained through the coöperation of the School of Education. The several members of the faculty of the School offer to the State the following lines of service: Educational tests and measurements; school surveys; teachers' appointments; advice and counsel with reference to school buildings, equipment, and general administrative problems.

PART FIVE

THE SCHOOL OF LAW
THE SCHOOL OF MEDICINE
THE SCHOOL OF PHARMACY

THE SCHOOL OF LAW

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*
MERTON LEROY FERSON, A.M., LL.B., *Dean.*

THE ADMINISTRATIVE BOARD

ATWELL CAMPBELL MCINTOSH, A.M., LL.D., *Professor of Law.*
ROBERT HASLEY WETTACH, A.M., LL.B., S.J.D., *Associate Professor of Law.*

SPECIAL STAFF

MERTON LEROY FERSON, A.M., LL.B., *Dean and Professor of Law.*
PATRICK HENRY WINSTON, *Professor of Law.*
ATWELL CAMPBELL MCINTOSH, A.M., LL.D., *Professor of Law.*
ROBERT HASLEY WETTACH, A.M., LL.B., S.J.D., *Associate Professor of Law.*
FRANK SMITHIES ROWLEY, A.B., LL.M., *Associate Professor of Law.*
ALBERT COATES, A.B., LL.B., *Assistant Professor of Law.*
*HENRY GROVES CONNOR, LL.D., Judge of the United States District Court, *Lecturer in the Summer School.*
WALTER PARKER STACY, A.B., LL.D., Associate Justice of the Supreme Court of North Carolina, *Lecturer in the Summer School.*

HISTORICAL SKETCH

The law school, which developed into the School of Law of the University, was founded in 1843 at Chapel Hill as a private school by William H. Battle, then a judge of the Superior Court, later a justice of the Supreme Court of the State. In 1845 Judge Battle was made Professor of Law in the University, and it was provided that the degree of Bachelor of Laws should be conferred on those completing the prescribed two-year course. From the records of the University, however, it seems that few degrees were actually conferred.

* Deceased.

For a long time the school maintained a certain independence of the University. The Professor of Law received no salary, though he enjoyed the fees from his classes, and the students were not entirely subject to the discipline of the University.

This was the position of the school from its formation until 1899, a period which covered the professorship of Judge Battle who retired in 1879, two years when the law classes were conducted by Hon. Kemp P. Battle, then President of the University, and the professorship of Dr. John Manning, elected 1881, died 1899. In 1899 the school was completely incorporated into the University, with the late Judge James C. MacRae, previously a justice of the Supreme Court of North Carolina, as the first Dean of the Law School. Upon the death of Judge MacRae in 1910, Lucius Polk McGehee was elected Dean, and held this position until his death in 1923. During the session 1923-1924, the school was under the guidance of Acting-Dean Atwell Campbell McIntosh, Professor of Law. Dean Merton Leroy Ferson took up the duties of Dean in September, 1924.

In 1919 the course of study for the degree was advanced from two years to three years. Since December, 1920, the school has been a member of the Association of American Law Schools. Beginning in September, 1923, the requirement for admission for regular students, not candidates for the degree, was increased to one year of college grade work. And in September, 1925, this requirement will be increased further to two years of college grade work.

RANK OF THE LAW SCHOOL

Member of the Association of American Law Schools.—The Law School is a member of the Association of American Law Schools, an association of fifty-seven law schools, including the leading schools. Members must maintain certain standards of entrance requirements, faculty, library, and course of study.

Approved by the American Bar Association.—The American Bar Association has through its Council on Legal Education, undertaken the classification of law schools. In respect to its faculty, library, and curriculum, the University of North Carolina Law School already complies with the requirements of a class "A" school. The school, however, does not until 1925 require two years of college work for admission. It is, therefore, at present in class "B," that is, one of the schools which has announced its intention of complying by 1926. After September 1, 1925, the University of North Carolina will have complied with all the standards set by the American Bar Association, and will be entitled to be rated in class "A."

REQUIREMENTS FOR ADMISSION

See page 48.

EXPENSES

See page 56.

REQUIREMENTS FOR GRADUATION

For the Degree of J. D.

The degree of Doctor of Law (J. D.) will be conferred upon students who comply with all the following conditions:

1. Completion of the work requisite for an A.B. degree or its equivalent before entrance upon the work of the School of Law.

2. The study of law for a period of at least three academic years.

3. The completion of all required subjects and enough elective subjects to make up an aggregate of eighty-four semester hours. An average grade of B on all subjects taken must be obtained.

4. Preparation and acceptance for publication in *The Law Review* of an article of at least ten pages or case notes which in the aggregate shall be at least eight pages in length.

For the Combined Degrees of A.B. and LL.B.

The University offers the combined degrees of A.B. and LL.B. to students have have complied with the following requirements:

The courses in the College of Liberal Arts outlined below; all academic work to be completed before matriculation in the School of Law; the completion of all courses in the School of Law prescribed for the degree of LL.B.

Students taking this combined course will be enabled to secure the two degrees in six instead of seven years.

Prescribed courses in the College of Liberal Arts for the combined degree:

FIRST YEAR	SECOND YEAR	THIRD YEAR
Eng. 1	Eng. 3-4	Econ. 1-2
Math. 1-2	Lat. 3-4	Psychology 1-2
Lat. 1-2	Hist. 3-4	Eng. 2 courses
Hist. 1-2	Select one: Greek 5, French 5, Ger. 21	History and Govt. 2 courses
Select one: Greek 3-4, French 3-4, Ger. 3-4	Select one: Math. 3-4, Phys. 1-2, Chem. 1-2	Elective 1 course

For the Degree of LL.B.

The degree of Bachelor of Laws is conferred upon a regular student who has studied law for a period of at least three academic years and passed satisfactory examinations on all required subjects and enough elective subjects to make up an aggregate of eighty-four semester hours.

ATTENDANCE, EXAMINATIONS, GRADES, ELIMINATION OF STUDENTS

ATTENDANCE.—A student who is absent more than 10% of the total class hours in any subject will be denied credit in that subject unless his absences are excused by the Dean. The Dean is not expected to excuse an absence for any cause after the total absences in a subject amount to 20% of the total class hours in that subject.

EXAMINATIONS.—Written examinations are held at the close of the first half year in subjects which are then completed and at the close of the year in all other subjects.

GRADES.—The grading of students will be indicated by the letters A, B, C, D, E, and F representing respectively excellent, good, satisfactory, fair, conditions, and failed. A student receiving the grade of F (failed) in any subject will be required to repeat the course. A student receiving the grade of E (conditioned) on any subject will be required to repeat the course unless he passes with a grade of C the next examination for the removal of conditions, which will be held during registration week of the succeeding autumn.

ELIMINATION OF STUDENTS.—A student must obtain a grade of D or better in at least three-fourths of the total number of semester hours for which he registers, and any student who fails to do so shall thereby automatically be excluded from further work in the school. He may be reinstated upon such showing and upon such conditions as may be required by the Law Faculty.

NUMBER OF HOURS OF WORK REQUIRED AND PERMITTED

Students are not permitted to take more than sixteen hours of work weekly except with the special permission of the Faculty, granted only for good cause.

No student taking fewer than ten hours weekly will be considered as studying law within the rule of the Supreme Court requiring two years of study of law as a necessary preliminary of applicants for license to practise in North Carolina.

DIVISIONS OF ACADEMIC YEAR: DATES

Work in the School is divided into two semesters instead of into three quarters. The first semester begins at the same time as the fall quarter of the College of Liberal Arts, and ends on the Saturday before the second Monday in February. The second semester begins on the second Monday in February and ends at the same time as the third quarter of the College of Liberal Arts.

METHOD OF INSTRUCTION

The case method of instruction is used. This method is now used in over ninety per cent of the Schools in the Association of American Law Schools. It is designed to instill correct modes of legal study, to train the mind in legal reasoning, and to give a thorough grasp of fundamental legal principles.

SUBJECTS OF INSTRUCTION

The subjects marked with an asterisk are prescribed for the degrees of Doctor of Law or Bachelor of Laws. The student may elect the remainder of his subjects. Third-year students may elect subjects of the second year not previously studied.

FIRST YEAR SUBJECTS

(The schedule of classes for the academic year 1925-26 will not be ready for distribution until after September 1, 1925. The following is a list of subjects offered during 1924-25, and is not an announcement of courses for 1925-26, although few changes are anticipated. Text books and instructors may be changed in some instances.)

*CONTRACTS: Williston's *Cases on Contracts. Three hours, both semesters.* Professor Ferson.

*TORTS: Bohlen's *Cases on Torts. Three hours, both semesters.* Professor Coates.

*PROPERTY I: Edward Warren's *Cases on Property. Three hours, both semesters.* Professor Rowley.

*CIVIL PROCEDURE I: Scott's *Cases on Civil Procedure. Two hours, both semesters.* Professor McIntosh.

*CRIMINAL LAW: Derby's *Cases on Criminal Law. Two hours, both semesters.* Professor Winston.

*AGENCY: Keady's *Cases on Agency. Two hours, both semesters.* Professor Wettach.

*EQUITY JURISPRUDENCE I: *Two hours, spring semester.* (Not given 1924-25.)

LEGAL BIBLIOGRAPHY: Introduction to the knowledge and use of law books. *One hour, fall semester.* Professor Coates.

SECOND YEAR SUBJECTS

*PROPERTY II: Joseph Warren's *Cases on Conveyances. Two hours, both semesters.* Professor Rowley.

*EQUITY II: Ames' *Cases on Equity, Parts I and II. Two hours, both semesters.* Professor Coates.

*PROCEDURE II: Equity Pleading: Rush's *Equity Pleadings;* Code of Civil Procedure: N. C. Code. *Two hours, both semesters.* Professor McIntosh.

*EVIDENCE: Hinton's *Cases on Evidence. Two hours, both semesters.* Professor McIntosh.

*NEGOTIABLE INSTRUMENTS: Huffcutt's *Cases on Negotiable Instruments.* (Colson Edition). *Three hours, spring semester.* Professor Ferson.

SALES: Williston's *Cases on Sales.* (Third Edition). *Three hours, fall semester.* Professor Ferson.

WILLS AND ADMINISTRATION: Costigan's *Cases on Wills;* N. C. Statutes. *Two hours, both semesters.* Professor Winston.

PRACTICE: *One hour, spring semester,* in connection with the Code of Civil Procedure. Professor McIntosh.

THIRD YEAR SUBJECTS

*CONSTITUTIONAL LAW: Hall's *Cases on Constitutional Law. Two hours, both semesters.* Professor Wettach.

*PRIVATE CORPORATIONS: Warren's *Cases on Corporations. Two hours, both semesters.* Professor Wettach.

ADMINISTRATIVE LAW: Freund's *Cases on Administrative Law. Three hours, spring semester.* Professor Winston.

INSURANCE: Woodruff's *Cases on Insurance.* (Second edition.) *Three hours, fall semester.* Professor Winston.

MORTGAGES: Kirchwey's *Cases on Mortgages. Two hours, fall semester.* Professor Rowley.

FEDERAL COURTS: Hughes' *Federal Procedure. Two hours, fall semester.* Professor McIntosh.

CONFLICT OF LAWS: Beale's *Shorter Selection of Cases on Conflict of Laws. Two hours, both semesters.* Professor Wettach.

TRUSTS: Scott's *Cases on Trusts. Two hours, both semesters.* Professor Coates.

MUNICIPAL CORPORATIONS: Macy's *Cases on Municipal Corporations. Two hours, spring semester.* Professor McIntosh.

*MOOT COURT: *Two hours, both semesters.*

TAXATIONS Beale's *Cases on Taxation. Two hours, spring semester.* Professor Coates.

THE NEW LAW BUILDING

The Law School is now in its new building, known as Manning Hall. The building occupies a prominent place in the new group of University buildings and is well provided with ample accommodations for lecture halls, library, and reading rooms.

THE NORTH CAROLINA LAW REVIEW

The North Carolina Law Review, issued quarterly, is published by the Law School. It is devoted to discussion of legal problems and new cases, especially those of interest to North Carolina lawyers. The opportunity afforded the more advanced students, whose work is of high grade, to take part in the preparation and managements of the *Review,* should be of the greatest advantage to them and an incentive to the highest effort.

LAW CLUBS AND LAW SCHOOL ASSOCIATION

Each law club is composed of eight students from the first year class, and a proportionate number from the second and third year classes. Their work takes the form of argument of cases before appellate courts. The arguments of the first year students are within the clubs, while the arguments of the second and third year students are between the clubs.

These clubs join together in the Law School Association, with the sole purpose of promoting the interests of the Law School. The presidents of the clubs form a board of directors of the Association, and the members of the Law School faculty together with representatives of the University administration form a board of advisers.

PRIZE

The Callaghan Prize in Law. A copy of the Cyclopedic Law Dictionary is offered by Callaghan and Co., Law Publishers, to that member of the Senior class each year who obtains the highest general average in his work for the year.

ADDITIONAL OPPORTUNITIES OF UNIVERSITY LIFE

Students in the Law School may be admitted without additional expense to the courses given in the Departments of Economics, English, Philosophy, and History in the College of Liberal Arts, subject to the rules stated as to the number of hours which a student may take, and subject to the approval of the Dean of the School of Law. A student taking such a course must satisfy the entrance requirements for the course selected.

Students of the School may become members of the Dialectic and Philanthropic Literary Societies, where they may take part in or witness debates of a high order and train themselves in parliamentary law.

As students of the University, they enjoy all the privileges of the University library, the University gymnasium, and the organizations of the University generally, literary, social, and athletic.

SUMMER LAW SCHOOL, 1925

The Summer Law School for 1925 will consist of two distinct lines of work, first a group of subjects that may be taken for credit towards a degree and second a review of the subjects required by the Supreme Court of the State of applicants for license.

COURSES FOR CREDIT

The credit course will extend over a period of twelve weeks divided into two terms of six weeks each. Classes in the first term begin Friday, June 12, and end Tuesday, July 21. Examinations will

be held July 18, 20, and 21. Classes in the second term begin Wednesday, July 22, and end Saturday, August 29. Examinations will be held August 27, 28, and 29.

(Note that dates for the other branch of Summer Law School are different.)

The purpose of the Summer School is to lighten and supplement the work of the regular session by enabling students to complete subjects usually taken in the regular session or to shorten the period of study for a degree.

Subjects have been selected to afford proper work, both for students beginning the study of law and for advanced students. The character of instruction and the amount and grade of work required will be the same as that of the regular session.

CREDIT

Students who are qualified for admission as candidates for degrees will be given two semester hours credit for each subject completed. Each subject will be given six hours a week for six weeks. Regular work will be twelve hours a week. It is thus possible to earn eight semester hours of credit during the summer.

FEES

Tuition, each term (six weeks) $15.00
Registration and incidental fees, each term (six weeks) 8.00

COURSES OF INSTRUCTION

First Year Subjects

First Term:	*Second Term:*
PERSONAL PROPERTY	CRIMINAL LAW
DOMESTIC RELATIONS	LEGAL LIABILITY

Second and Third Year Subjects

DOMESTIC RELATIONS	LEGAL LIABILITY
PUBLIC UTILITIES	TAXATION

REVIEW COURSE

A summer course in law is offered, beginning on Friday after Commencement and continuing to the end of the week preceding the Supreme Court examination for admission to the Bar in August. It is intended to provide a review of the course required by the Supreme Court of the State for applicants for license.

The term for the summer of 1925 begins Friday, June 12, and ends Friday, August 21, three days prior to the examination before the Supreme Court for admission to the Bar of North Carolina. (Note that dates for the other branch of Summer Law School are different.)

LECTURES AND RECITATIONS

At this session two daily lectures and recitations of one hour and a half each will be held by professors of the Law Faculty and competent instructors. In addition there will be frequent quizzes. The two courses offered are intended to cover the requirements for reading prescribed, given below, in the rules of the Supreme Court of North Carolina. The instruction is conducted by means of textbooks, lectures, leading cases, and quizzes.

An outline of the work and of the time assigned to the various subjects is approximately as follows:

Domestic Relations (6 lectures); Contracts and related topics (18 lectures); Torts and related topics (10 lectures); Corporations (8 lectures); Evidence (6 lectures); Pleading and The Code (10 lectures); Criminal Law (6 lectures); Property, real and personal (22 lectures); Executors and Administrators (6 lectures); Equity (10 lectures); Constitutional Law (9 lectures); Legal Ethics (1 lecture).

The text-books used will be, as far as possible, those used at the regular session of the school, but any standard text-book on any of these subjects will be accepted.

EXAMINATIONS

No entrance examination is required; but each student must satisfy the faculty that he has sufficient general education to enable him to take the course with profit to himself. Examinations are required as each subject is completed, and at the end of the term certificates to that effect are issued to such students as have passed with credit all examinations in both courses. These certificates will not entitle the recipients to any credit in the work of the regular school.

FEES

Tuition for term	$30.00
Registration and Incidental Fees	5.00

The above mentioned fees cover privileges of the University library, gymnasium, and baths. Board in the village, with room, will cost from $25.00 to $37.50 a month; without room, from $20.00 to $30.00.

For further information address the Dean of the School of Law, Chapel Hill, N. C.

THE SCHOOL OF MEDICINE

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*

ISAAC HALL MANNING, M.D., *Dean.*

THE ADMINISTRATIVE BOARD

ISAAC HALL MANNING, M.D., *Professor of Physiology.*

CHARLES STAPLES MANGUM, A.B., M.D., *Professor of Anatomy.*

WILLIAM DEBERNIERE MACNIDER, M.D., *Kenan Research Professor of Pharmacology.*

JAMES BELL BULLITT, A.M., M.D., *Professor of Pathology.*

WESLEY CRITZ GEORGE, Ph.D., *Professor of Histology and Embryology.*

SPECIAL STAFF

CHARLES STAPLES MANGUM, A.B., M.D., *Professor of Anatomy.*

ISAAC HALL MANNING, M.D., *Professor of Physiology.*

WILLIAM DEBERNIERE MACNIDER, M.D., *Kenan Research Professor of Pharmacology.*

JAMES BELL BULLITT, A.M., M.D., *Professor of Pathology.*

WESLEY CRITZ GEORGE, Ph.D., *Professor of Histology and Embryology.*

ALVIN SAWYER WHEELER, Ph.D., *Professor of Organic Chemistry.*

JOHN GROVER BEARD, Ph.G., *Professor of Pharmacy.*

ROBERT BAKER LAWSON, M.D., *Associate Professor of Applied Anatomy.*

DANIEL ALLAN MACPHERSON, Sc.M., *Associate Professor of Bacteriology.*

FREDERICK PHILIPS BROOKS, S.M., *Instructor in Physiological Chemistry.*

HISTORICAL SKETCH

The School of Medicine was established in 1879 under the direction of Dr. Thomas W. Harris. A course in theoretical and practical medicine, as was the custom at the time, was offered, but this plan was found impracticable and was abandoned in 1886. In 1890, however, a more orderly and logical arrangement of the subjects of the medical course had begun, and it became possible for a university, without clinical facilities, to offer instruction in the elementary subjects. Dr. Richard H. Whitehead was then elected Professor of Anatomy, and under his guidance the School was re-opened and has continued without interruption. In 1900, the medical course having been extended

in the better class of schools to four years, the subjects of the first two years were offered at the University. In 1902 a Clinical Department was established at Raleigh, but after several years of unsuccessful effort to provide for its proper support it was abandoned. In 1908 the School was admitted to membership in the Association of American Medical Colleges, and is ranked in the class "A" group by the American Medical Association.

REQUIREMENTS FOR ADMISSION

See page 49.

EXPENSES

See page 56.

COURSES OFFERED

The following courses are offered:

1. A Premedical Course of Two College Years. This course is arranged to provide the subjects and number of hours required for admission by a large number of medical schools. It is offered as a guide to those students beginning a preparation for the study of medicine who are unwilling or unable to take a more extensive collegiate course. See page 188.

2. A Combined Course Leading to the Degree of Bachelor of Science in Medicine. This is a combination course of three collegiate years including the subjects most fundamental in the preparation for the study of Medicine and the medical course of two years, upon the completion of which the degree of Bachelor of Science in Medicine is granted. The student may, therefore, obtain a collegiate degree and the degree of Doctor of Medicine in seven years. It is recommended to those who find it impracticable to spend four years in collegiate work. See page 186.

3. The Medical Course. The course leading to the degree of Doctor of Medicine consists regularly of four years in strictly medical subjects. The subjects are arranged naturally into two main groups, the so-called Laboratory and Clinical groups, and two years are given to each group. The course offered in this school includes the subjects of the first group and occupies a period of two years. Upon completing this course, the student is prepared to begin the study of the clinical subjects, and may enter the third year in another medical school. Full credit is allowed in practically all medical schools.

SPECIAL NOTICE

An applicant notified of his acceptance must deposit with the treasurer of the University not later than August 1st, a fee of $67.00; otherwise the acceptance will be withdrawn. If the applicant presents himself for registration and remains in the school during the first quarter the deposit will be accredited to his account; otherwise the deposit will be forfeited.

THE MEDICAL COURSE

First Year

BIOLOGICAL CHEMISTRY: Nine hours a week, winter quarter.

HISTOLOGY: Fifteen hours a week, fall quarter.

OSTEOLOGY AND ARTHROLOGY: Six hours a week, fall quarter.

GROSS ANATOMY: Twenty-four hours a week, winter quarter.

NEURO-ANATOMY: Twelve hours a week, spring quarter.

APPLIED ANATOMY: Six hours a week, spring quarter.

EMBRYOLOGY: Three hours a week, fall quarter; six hours a week, spring quarter.

BACTERIOLOGY: Fifteen hours a week, spring quarter.

PHARMACY: Four hours a week, fall quarter.

Second Year

BIOLOGICAL CHEMISTRY AND TOXICOLOGY: Six hours a week, fall quarter.

PHYSIOLOGY: Twelve hours a week, fall quarter; six hours a week, winter quarter.

IMMUNOLOGY: Nine hours a week, fall quarter.

PATHOLOGY: Six hours a week, fall quarter; eight hours a week, winter quarter; twelve hours a week, spring quarter.

PHARMACOLOGY: Three hours a week, fall quarter; ten hours a week, winter and spring quarters.

MINOR SURGERY: Four hours a week, winter quarter.

PHYSICAL DIAGNOSIS: Four hours a week, spring quarter.

HYGIENE: Three hours a week, winter quarter.

Summary of First and Second Years

Subjects	*Hours*
Biological Chemistry	160
Anatomy	720
Physiology	198
Bacteriology and Immunology	250
Pathology	275
Pharmacy	60
Minor Surgery and Physical Diagnosis	84
Hygiene	33

EXAMINATIONS

Regular examinations on the first year subjects will be held during the examination periods of the College of Liberal Arts at the close of each quarter. In the second year the examinations will be held at

the close of the course. Special examinations for the removal of conditions will be allowed during the week preceding the close of the third quarter and during registration week in September.

An examination will not be allowed a student who is charged with ten per cent of unexcused absences, or with absences amounting to twenty per cent of the total number of hours assigned the subject.

PROMOTIONS

If a student makes a grade of F or fails on a second examination in any subject, he will be required to repeat the subject with the succeeding class. If a first year student fails on two subjects he will not be registered at the next session as a second year student, but as a special student, and he will be required to repeat all subjects of the first year in which his work has been unsatisfactory. He will be allowed to take only such subjects of the second year as will not conflict with such subjects of the first year as he may be repeating.

If a second year student makes a grade of E on any subject he will be allowed a second examination during the month of July. If he makes a grade of F on one of the major subjects, or a grade of E on two of the major subjects he will not be recommended for admission to the third year of any medical school. He may be readmitted to the succeeding second year class provided there is a vacancy and there is, in the judgment of the medical faculty, a reasonable hope of his doing creditable work.

A certificate will be granted to a student who completes satisfactorily the required preliminary work and the medical course. In the event of a failure to complete the work a statement indicating the subjects completed will be given. Credit will not be allowed for attendance only.

SCHOLARSHIP

The Wood Scholarship. (Established in 1895.) Mrs. Mary Sprunt Wood, of Wilmington, has founded a scholarship in memory of her husband, the late Dr. Thomas Fanning Wood.

COURSES OF INSTRUCTION

Chemistry

73. TOXICOLOGY. Prerequisites, Chemistry 61-62.
The chemical behavior of poisons and their separation from foods and animal tissues. *Fall quarter.* Mr. Brooks.

Anatomy

The courses include gross and microscopic anatomy, embryology, the topography of the body, the application and relation of anatomy to medicine and surgery, and the anatomy of the central nervous system and the organs of special sense.

Ample facilities are offered to any who may desire to pursue advanced work in the field of Anatomy.

1. OSTEOLOGY AND ARTHROLOGY.

Detailed study of the skeleton, each student being provided with a complete set of disarticulated bones which he is required to demonstrate and draw. The joints are studied from prepared specimens. *Six hours a week, fall quarter.* Professor Mangum.

2. GROSS ANATOMY.

The student makes a complete dissection of the human body under the constant supervision and direction of an instructor, who insists upon the use of the texts, guides, and atlases, and holds practical examinations upon the cadaver. Laboratory talks, demonstrations, and conferences take the place of lectures. Texts: Cunningham, Gray, Piersol. *Twenty-four hours a week, winter quarter.* Professor Mangum.

3. GENERAL HISTOLOGY AND ORGANOLOGY.

This course includes: (a) study of the fundamental tissues, followed by (b) the study of the microscopic structures of the various organs. Lectures, demonstrations, and laboratory. Text: Jordan. *Fifteen hours a week, fall quarter.* Professor George.

4. CYTOLOGY AND HISTOGENESIS.

Those who have completed course 2 or its equivalent will be offered an opportunity to pursue further work in Cytology and Histogenesis. Arrangements for this course may be made with the instructor. Professor George.

5. EMBRYOLOGY.

(a) Lectures and laboratory study of the early processes in the formation of the vertebrate body. (b) Lectures, demonstrations, and laboratory study of mammalian embryos. Text: Arey. *Three hours a weeek, fall quarter; six hours a week, spring quarter.* Professor George

6. CENTRAL NERVOUS SYSTEM AND ORGANS OF SPECIAL SENSE.

A special laboratory study of the gross and microscopic anatomy of the cord and encephalon. Each student is provided with numerous prepared dissections of the human brain and a series of sections through the cord of the brain stem, which he studies with the aid of a guide. A human brain is then given to each group of four men and by them dissected in order to correlate and systematize the work already done. A practical examination tests the student's ability to locate the various tracts and nuclei. *Twelve hours a week, spring quarter.* Professor Mangum.

7. APPLIED ANATOMY .

Embraces the external markings and surface anatomy of the organs (viscera, vessels, nerves, etc.), their location and inter-relationships; topographical landmarks (normal and abnormal); incisions to reach arteries and nerves; influence of muscles upon fractures and laxations; and many other practical facts which may serve as aids to diagnosis and treatment. Instruction is by lectures and demonstrations upon the cadaver. Special dissections, preparations, models, and numerous drawings by the students are used as aids in this course. Text: Stewart. *Six hours a week, spring quarter.* Professor Lawson.

MINOR SURGERY.

Lectures and laboratory: The lecture course will cover the method of the treatment of wounds, the dislocations, fractures, and some of the more

common surgical conditions. In the laboratory the student is taught bandaging, and will be given an opportunity to practice some of the amputations and resections of joints on the cadaver. Text. Wharton. *Four hours a week, winter quarter.* Professor Lawson.

PHYSICAL DIAGNOSIS.

Lectures and laboratory: A brief course in the methods of physical examination, largely of the normal person. As far as possible, abnormal heart and lung cases will be submitted for examination. Text: DaCosta. *Four hours a week, spring quarter.* Professor Lawson.

Pharmacy

8. PHARMACY FOR MEDICAL STUDENTS.

This course in pharmacy will consist of two lectures supplemented by two laboratory periods each week. Beginning with a consideration of the metric system as applied to writing prescriptions and preparing formulae, the course will embrace successively medical arithmetic, prescription writing, official galenical and magistral preparations with their doses. cellulose and its compounds, carbohydrates, coal and wood tar products, resins, gums, esters, volatile oils, alkaloids, animal drugs, and, lastly, solubility and incompatibility. The student will be required to make the preparations commonly prescribed, in order that he may be acquainted with their nature and composition. In addition, he must demonstrate the various forms of incompatibility liable to occur in prescriptions. Text book: *United States Pharmacopeia. Four hours a week, fall quarter.* Professor Beard.

Physiology

PHYSIOLOGY.

The course in Physiology is given in three parts as follows:

1. Physiology: a lecture course of six hours a week for two quarters in which the functions of the systems of organs are explained and discussed as fully as time permits. The subjects include the digestion, the circulation, respiration, elimination, metabolism, the internal secretions, heat regulation, the nervous system, and the special senses. Attention is called to pathological conditons which are commonly associated with disturbed function and which emphasize the importance of normal function. Text: Howell.

2. Biological Chemistry 1: a lecture and laboratory course of nine hours a week during the winter quarter of the first year in which the fundamental principles of the subject are discussed and illustrated by appropriate experiments in the laboratory as far as possible. The chemistry of the "body stuffs," of digestion, of metabolism, and the other general subjects of physiological chemistry are treated in the usual way.

3. Biological Chemistry 2: In the fall quarter of the second year the class is divided into two sections for the more difficult work in blood and urine analysis, basal metabolism, etc. Text: Pettibone, Matthews, Folin.

4. Experimental Physiology: a laboratory course of six hours a week during the fall quarter of the second year. In this course the student learns the use of physiological apparatus; studies the neuro-muscular system and heart on the frog and turtle; the vascular and respiratory systems on the rabbit and dog; and performs a limited number of experiments on the human, making pulse records, taking blood pressure, etc. Laboratory Notes. Professor Manning and Mr. Brooks.

Materia Medica and Pharmacology

1. PHARMACOLOGY.

1. Materia Medica. The preliminary study of drugs is given as a part of the course in Pharmacy by Professor Beard throughout the fall quarter of the first year in medicine. The student is required to learn the various preparations of the more important drugs, their dose, and chemical incompatibilities. Each student makes representative preparations of the different drugs.

2. Pharmacology. The course in Pharmacology extends throughout the second year of the medical curriculum. The character of the work permits a division of the course into three parts: (a) A consideration of the ways in which drugs may affect the organism. This introduction embraces a discussion of the various physico-chemical forces influencing drug activity, and the modification of the action of these conditions in different pathological states of the organism, such, for instance, as febrile conditions and various metabolic disturbances. (b) A general study of the pharmacology of the important drugs. The drugs are considered in groups depending upon their predominant effect in the body. The student learns the preparation, their dose, physiological incompatibilities, and considers in detail the way in which the drugs act as pharmacological agents. The symptoms and treatment of poisoning are considered following the discussion of the pharmacology of the group. (c) A consideration of the pharmacology of the drugs in the pathological animal, with a discussion of the modification of drug activity in various pathological states. In conjunction with this study emphasis is given to the use of drugs as therapeutic agents and a study is made employing such remedies as are indicated in the form of a prescription. Students are required to write prescriptions, which are then subjected to the criticism of various members of the class and the instructor.

3. Pharmacodynamics. This part of the general course in pharmacology consists in a careful and accurate study of the action of practically all of the more important drugs on the lower animals. For this work, the higher animals, such as the cat and dog, are chiefly used. The class is divided into groups of two or four, and the experimental work is conducted by the student. Each student is required to hand in to the instructor at the completion of the course a laboratory notebook containing a detailed account of each experiment, an explanation of the results obtained, and the tracings made during the experiment. Oral and witten recitations are frequently held. Text: Sollmann. Reference: Cushny; Meyer and Gottlieb, *Pharmacology, Experimental and Clinical;* Jackson, *Experimental Pharmacology. Three hours a week, fall quarter; ten hours a week, winter and spring quarters.* Professors MacNider and Beard.

2. ADVANCED PHARMACOLOGY.

Two types of courses will be offered: (a) an experimental study of the action of various drugs upon the normal animal; (b) an experimental study of the action of various drugs and other agents upon the pathological animal. Professor MacNider.

Bacteriology and Pathology

1. PRINCIPLES OF BACTERIOLOGY. Prerequisites, Chemistry 1-2 and Botany 1.

A lecture and laboratory course offered as a general science course. The fundamental principles of bacteriology are emphasized, and the student is trained in general bacteriological technique. The morphological and biological characteristics of the molds, yeasts, and saprophytic bacteria are

studied. Pure cultures are isolated from air and water, and identification attempted. The applications of bacteriology to agriculture, industry, and the home are considered. (Registration of a minimum of eight students required.) Text: Marshall's *Microbiology*. *Six hours a week, winter quarter.* Credit, 1 course. *Elective. *Laboratory fee,* $4.00. Professor MacPherson.

2. MEDICAL BACTERIOLOGY. Required of medical students. *College elective. Prerequisites, Chemistry 1-2 and Bacteriology 1.

The early weeks of the course are devoted to a thorough grounding in the fundamental principles of bacteriology. Each student prepares the various culture media in common use; cultivates and describes several nonpathogens from stock cultures; and practices the more useful staining methods. Pure cultures are isolated from air and water, and their biology studied. The major portion of the course is devoted to the detailed study of the pathogens. Unknown mixtures are used to test the student's ability to differentiate organisms of the various groups. Practical applications of bacteriology in the diagnosis of disease are stressed by the examination of sputa, pus, feces, and blood. Animal inoculations are made to demonstrate the processes of infection and the differentiation of certain organisms. Lectures cover all the more important diseases. Text: Jordan's *Bacteriology*. *Fifteen hours a week, spring quarter.* Credit, 2 courses. *Laboratory fee, for non-medical students.* $6.00.

3. PUBLIC HEALTH AND HYGIENE. Required of medical students. *College elective. Prerequisite, Bacteriology 1.

Lectures and quizzes on the sources, mode of spread, and control of communicable diseases; child hygiene; industrial hygiene; water and sewage purification; vital statistics; and epidemiology. Text: Rosenau's *Preventive Medicine*. *Three hours a week, winter quarter.* Credit, ½ course. Professor MacPherson.

4. INFECTION, IMMUNITY, AND SERUM DIAGNOSIS. Required of medical students. *College elective. Prerequisite, Bacteriology 2 or its equivalent.

The early laboratory work is designed to demonstrate the basic principles of immunology and serology. Practical training is given in the production and use of agglutinins, precipitins, lysins, and complement fixing antibodies. Vaccines are prepared, and their use demonstrated. The preparation and standardization of antimicrobic and antitoxic sera is studied. Anaphylaxis and allergy are produced in animals, and methods of diagnosis and desensitization practiced. The student is required to prepare his own materials, and to inject and bleed animals himself. Special attention is given to the use of these principles in the diagnosis of blood stains; blood grouping; typhoid fever; typhus fever; diphtheria; tuberculosis; hay fever; gonorrhoea; and syphilis. Unknown specimens test the student's ability to use the reactions. Lectures consider the principles of infection, immunity, and resistance. Text: Kolmer's *Infection, Immunity, and Biological Therapy*. *Nine hours a week, fall quarter. Laboratory fee for non-medical students,* $10.00. Credit, 1 course. Professor MacPherson and _____

5. PUBLIC HEALTH LABORATORY METHODS. Prerequisite, Bacteriology 1 or its equivalent.

A course of training in the modern bacteriological methods employed in the routine work of a public health laboratory. Practice is afforded in

* Before registering for this course the academic student must secure the permission of his Dean.

the laboratory diagnosis of diphtheria, tuberculosis, typhoid fever, pneumonia, malaria, gonorrhoea, syphilis, and rabies. The bacteriological examination of water, milk, and canned goods is also practiced. The course is designed for medical students, and those wishing to qualify as bacteriological laboratory technicians. *Six hours a week, spring quarter. Laboratory fee for non-medical students,* $6.00. *Credit, 1 course. Professor MacPherson.

6. ADVANCED BACTERIOLOGY AND RESEARCH. Prerequisite, Bacteriology 2 or its equivalent.

Opportunity and facilities are offered to qualified students to pursue advanced work in bacteriology and immunology. *Hours arranged.* *Credit, 1 to 3 courses. Professors Bullitt and MacPherson.

PATHOLOGY.

This course embraces a consideration of general and special pathology from the chemical and physiological as well as the morphological aspects. Lectures and recitations are combined with laboratory work in a study of both gross and microscopical preparations.

In this work carefully selected loan sections form the basis for the study, but especial attention is paid to the experimental production, in laboratory animals, of the various common lesions due to mechanical, chemical, and bacterial agents. Under the guidance of the instructor the student produces these lesions and prepares his own specimens therefrom. Text: MacCallum, Mallory. *Six hours a week, fall quarter; eight hours a week, winter quarter; twelve hours a week, spring quarter.* Professor Bullitt.

* Before registering for this course the academic student must secure the permission of his Dean.

SCHEDULE OF CLASSES

First Year

FIRST QUARTER	Histology 8:30-12 Every day except Sat.	Osteology 12-1 Every day	Embryology 8:30-12 Sat.	Pharmacy 2-4, Mon. & Wed. 2-3 Tues. & Thurs.	
SECOND QUARTER	Anatomy 8:30-12 Every day 2-5 Tues.-Thurs.	Bio-Chemistry 2-5 Mon. & Fri. 12-1, Tues., Wed., Thurs.			
THIRD QUARTER	Applied Anatomy 8:30-9:30 Every day	Embryology 9:30-1 Mon. & Tues.	Neurology 9:30-1 Wed., Thurs., Fri., Sat.	Bacteriology 2-5 Every day except Sat.	

Second Year

FIRST QUARTER	Physiology 8:30-9:30 Every day	Exp. Physiology and Bio. Chem. Alternating Secs. 9:30-1 and 2-5 Mon. & Fri.	Pharmacology 9:30-10:30 Tues., Thurs., Sat.	Pathology 9:30-12 Wed. 11-12, Tues., Thurs. 11-1 Sat.	Immunology 12-1 & 2-4 Tues., Wed., Thurs.
SECOND QUARTER	Physiology 8:30-9:30 Every day	Pharmacology 9:30-1 and 2-4 Mon. and Fri. 9:30-10:30 Tues., Wed., Thurs.	Pathology 11-1, Tues., Wed., Thurs.	Hygiene 2-3 Tues., Wed., Thurs.	Minor Surgery 3-5 Tues. & Thurs.
THIRD QUARTER	Pharmacology 8:30-9:30 Every day except Sat. 8:30-1 and 2-4, Secs., Mon. & Fri.	Pathology 9:30-1, Tues., Wed., Thurs., Sat.	Physical Diagnosis 2-4 Tues., Thurs.		

THE SCHOOL OF PHARMACY

HARRY WOODBURN CHASE, Ph.D., LL.D., *President.*

EDWARD VERNON HOWELL, A.B., Ph.G., *Dean.*

JOHN GROVER BEARD, Ph.G., *Secretary.*

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HAYWOOD MAURICE TAYLOR, Ph.D., *Instructor in Pharmaceutical Chemistry.*

WILLIAM DOUGALD MACMILLAN, 3d, A.M., *Instructor in English.*

OSCAR DANIEL BIDDY, *Assistant in Pharmacy.*

EARL HENRY TATE, *Assistant in Pharmacy.*

HAL MARION WINDERS, *Assistant in Pharmacy.*

HISTORICAL SKETCH

In 1880 Dr. Thomas W. Harris was instrumental in establishing a Pharmacy School at the University in connection with the School of Medicine. Doctor Harris was Professor of Anatomy, Materia Medica, and Pharmacy. The faculty of the new school consisted in addition to Professor Harris, of Frederick W. Simonds, Professor of Botany

and Psysiology, and Francis P. Venable, Professor of Chemistry. The course in pharmacy extended over two sessions of five months each, and led to the degree of Graduate in Pharmacy (Ph.G.). The school was continued until the resignation of Doctor Harris in 1886, when it was abandoned completely. In the fall of 1889 the school was revived by Dr. Richard H. Whitehead, but again its career was cut short.

In March of 1897 the present School of Pharmacy was established, and Edward Vernon Howell, A.B., Wake Forest College, and Ph.G., Philadelphia College of Pharmacy, was elected Professor of Pharmacy and given charge of the school. At that time the school occupied the ground floor of the New West Building, which had been provided with laboratories, lecture rooms, an herbarium, and a reading room. The first lectures, offered in September of 1897, pertained to practical and theoretical pharmacy, materia medica, physiology, physics, general and analytical chemistry, and botany. The course of study extended over two sessions of nine months each and led, as did the courses in the initial school, to the degree of Graduate in Pharmacy (Ph.G.).

The school has gradually developed with respect to members of the faculty, equipment, apparatus, and attendance. In the summer of 1912 it was moved to Person Hall, a building containing ten rooms. The Pharmaceutical library has been made valuable by many historical and modern books on pharmacy and its allied branches and by bound volumes of proceedings and journals, either given by friends or purchased by the University. In 1914 two new courses in pharmacy were added to the curriculum; one, a three-year course, led to the degree of Doctor of Pharmacy (P.D.); the other, also a three-year course, led to the degree of Pharmaceutical Chemist (Ph.C.). In 1917 the school was admitted to membership in the American Conference of Pharmaceutical Faculties, an organization founded for the promotion of pharmaceutical education. Member-colleges, in order to retain their membership, must maintain certain entrance and graduation requirements and must in other ways follow out general practices as determined by the Conference.

In order to comply with newly made Conference requirements, in 1925 the degrees of Doctor of Pharmacy and Pharmaceutical Chemist were abandoned, and the course of study leading to the degree of Graduate in Pharmacy was advanced from two to three years. A four year course was also added leading to the degree of Bachelor of Science in Pharmacy, (S.B. in Pharm.).

In the fall of 1925 the School of Pharmacy will move into the building now occupied by the Department of Chemistry.

REQUIREMENTS FOR ADMISSION

See page 50.

EXPENSES

See page 56.

COURSES OFFERED

For the Degree of Graduate in Pharmacy

In order to be recommended for the degree of Graduate in Pharmacy the student must have completed the three-year course of study outlined below. Work done in some other recognized school of pharmacy may be accepted for the first two years of this course only.

A student must obtain satisfactory marking in attendance, making a grade of D or better in each course, and must submit a satisfactory thesis.

For the Degree of Bachelor of Science in Pharmacy

A four-year course leading to this degree is offered. For the curriculum required for this degree see under the section devoted to the School of Applied Science, page 187.

A student with three years of accredited work in a recognized school of pharmacy and submitting satisfactory evidence of having completed courses equivalent to those prescribed in the first three years of this curriculum may receive the degree of S.B. in Pharmacy after one year of resident work.

Upon the completion of the prescribed courses for the degree of Bachelor of Science in Pharmacy a student may elect to enter the School of Medicine or to pursue courses of study leading to the Master's or Doctor's degree in Chemistry.

Drug Store Experience

The North Carolina Board of Pharmacy requires of candidates for license to practice pharmacy evidence of not less than forty-eight months of practical drug store experience. However, it allows the work done in the pharmaceutical laboratories to count in lieu of drug store experience, such credit to be limited to twenty-four months. Up to this limit the college work counts month for month.

COURSE LEADING TO THE DEGREE OF GRADUATE IN PHARMACY

First Year

Fall Quarter: Chemistry 1, English 1, Botany 10, Pharmacy 10.

Winter Quarter: Chemistry 2, Botany 11, Pharmacy 11, Pharmacy 15.

Spring Quarter: Chemistry 31, English 2, Pharmacy 12, Pharmacy 16.

Second Year

Fall Quarter: Chemistry 41, Pharmacy 20, Pharmacology 20, Pharmaceutical Chemistry 25.

Winter Quarter: Chemistry 42, Pharmacy 21, Pharmacy 26, Materia Medica 20.

Spring Quarter: Pharmacy 28, Pharmaceutical Chemistry 27, Pharmaceutical Chemistry 29, Materia Medica 21.

Third Year

Fall Quarter: Pharmacy 30, Pharmacy 33, Pharmaceutical Chemistry 35, Materia Medica 30.

Winter Quarter: Pharmacy 34, Pharmaceutical Chemistry 36, Pharmacology 32.

Spring Quarter: Pharmacy 31, Pharmacy 38, Pharmacy 39, Elective (Economics or Psychology or Business Administration).

COURSE LEADING TO THE DEGREE OF S.B. IN PHARMACY

See page 187.

COURSES OF INSTRUCTION

Pharmacy

10. PHARMACEUTICAL ARITHMETIC.

Beginning with a thorough study of the metric system, this course progresses through transposition, ratio, percentage, and alligation, after which the student is drilled in problems having to do with chemical reactions. Follows then a consideration of the arithmetic met with in commercial transactions, such as cost, overhead, profit, and sales, percentage, turnover, mark-up, etc, etc. It is the purpose of the course so to relate arithmetic to pharmacy as not only to make certain that students can solve quickly and correctly the scientific problems met with in manufacturing and dispensing, but also that they may have mastery over the merchandizing calculations that now play so prominent a part in retail pharmacy. Textbooks: Sturmer's *Pharmaceutical Arithmetic* and Beard's *Notes on Commercial Transactions. Three hours a week, fall quarter.* Credit, ½ course. Professor Beard.

11-12. THEORY AND PRACTICE OF PHARMACY,

This course consists of lectures upon the following subjects, with practical demonstrations and the employment of proper apparatus whenever necessary; metrology, comminution, heat evaporation, distillation, sublimation, fusion, calcination, granulation, oxidation, reduccence, etc.; colation, filtration, decolorization, clarification, precipitation, etc; maceration, expression, infusion, decoction, etc.; percolation and study of the following: waters, syrups, honeys, glycerites, mucilages, mixtures, spirits, elixirs, liniments, collodions, tinctures, wines, vinegars, and fluidextracts. Text-book: Remington's *Theory and Practice of Pharmacy. Five hours a week, winter and spring quarters.* Credit, 2 courses. Professor Howell.

15-16. OPERATIVE PHARMACY.

This course is designed to demonstrate the various operations outlined in Pharmacy 11-12, and to drill the student in the correct preparation or manufacture of all of the classes of pharmaceuticals as outlined in the Pharmacopoeia. He is required to make under

the direction of the instructor those preparations which enter into prescriptions and is taught the correct uses of the different apparatus required in the practice of pharmacy. Text-book: Remington's *Theory and Practice of Pharmacy. Lectures and laboratory. Four hours a week, winter and spring quarters. Laboratory fee, $5.00.* Credit, 1 course. Professor Kyser and Assistants.

20-21. THEORY AND PRACTICE OF PHARMACY. Prerequisite, Pharmacy 11-12.
The official forms and preparations of drugs are taken up in detail. Beginning with the inorganic compounds, the salts are considered with regard to their commercial qualities and pharmaceutical uses and preparations. The organic compounds are studied, commencing with the salts of the organic acids and passing to the natural and organic compounds. *Five hours a week, fall and winter quarters.* Credit, 2 courses. Professor Howell.

26. PHARMACEUTCAL LATIN.
A certain modicum of Latin is absolutely essential to the understanding of pharmaceutical terminology and to the proper handling of prescriptions. It is the purpose of this course to provide exactly that modicum. The course is divided into two parts. The first consists of twenty lectures and recitations presenting in progressive arrangements the necessary instruction in forms and syntax, and excluding everything which, however desirable and helpful, is not of immediate practical use to the pharmacist. The second part is devoted to word classificatons, abbreviations in common use, and to analyzing pharmaceutical terminology and prescriptions as ordinarily written. Text-book: Howe and Beard's *Latin for Pharmacists. Three hours a week, winter quarter.* Credit, ½ course. Professor Beard.

28. DISPENSING PHARMACY.
A practical course concerned with the operations and processes involved in prescription-filling. At the outset, students demonstrate for themselves the selection and correct use of the various apparatus employed in compounding formulae, after which they are drilled carefully in proper procedure and are instructed thoroughly in the method of mixing the materials that enter into physicians' recipes. Incompatibilities are considered, first, as to probable occurrence, and second, as to prevention or correction. The common types are demonstrated and every probable kind is given study. No fixed number of actual prescriptions is required to be filled, but the student is kept at the task of compounding until he becomes competent to serve as a practical prescriptionist. Not only is the usual technique of compounding dwelt upon, but there also enters into the course a consideration of such matters as eutectic mixtures, colloidal solutions, viscocity, etc. After prescriptions are filled, they are checked, labeled, properly packed, and then priced according to the accepted scale of calculation. During the progress of the course, emphasis is laid upon posture, neatness, dexterity, and accuracy. Working texts: Scoville's *Art of Compounding,* Ruddiman's *Incompatibilities,* and Remington's *Practice of Pharmacy. Lectures three hours a week, laboratory six hours a week, spring quarter. Laboratory fee, $10.00.* Credit, 1 course. Professor Beard.

30. THEORY AND PRACTICE OF PHARMACY.
A study of the preparation and uses of biological preparations, serums, vaccines, toxins and antitoxins, and animal drugs. *Five hours a week, fall quarter.* Credit, 1 course. Professor Howell.

31. THEORY AND PRACTICE OF PHARMACY.

A review of the tests and assays of the U. S. P. together wth important diagnostical reagents and clinical tests. *Five hours a week, spring quarter.* Credit, 1 course. Professor Howell.

33-34. COMMERCIAL PHARMACY.

In presenting this practical course, the dominant motive is to train students to think in terms of drug store ownership rather than clerkship, and to think independently. The class is led progressively through the various phases of retail drug store operation, beginning with the location of a store site and ending with lectures on pharmaceutical jurisprudence by members of the Law School faculty. Each student is expected to subscribe for three leading drug journals and to purchase at least two reference books on retail store management. Text-book: O'Connor's *Commercial Pharmacy. Lectures and recitations. Three hours a week, fall and winter quarters.* Credit, 1 course. Professor Beard.

38. INDUSTRIAL PHARMACY. Prerequisites, Pharmacy 30, Pharmaceutical Chemistry 35-36.

This course is concerned with the commercial manufacture of the acids, heavy and fine chemicals, pharmaceutical specialties, and other products which are utilized in the manufacture of various pharmaceutical preparations. Special consideration is given to plant location, construction, machinery, raw materials, etc. Business and factory management including salesmanship, order routing, standardization, chemical control methods, packages, and shipping are also given consideration. References: Roger's *Industrial Chemistry,* and *United States Dispensatory. Lectures, five hours a week, laboratory six hours a week, spring quarter. Laboratory fee, $7.50.* Credit, 1½ courses. Professor Kyser and an Assistant.

39. RESEARCH. Prerequisites, Pharmacy 21-30.

Direction in the investigation of some subject of interest in pharmacy to be presented in the form of a thesis. Professors Howell, Beard, Kyser, and Totten and Mr. Taylor.

49. RESEARCH. Prerequisites, Pharmaceutical Chemistry 40 and Pharmacy 30.

Advanced research work as a partial requirement for the degree of S.B. in Pharmacy. Professors Howell, Beard, and Kyser and Mr. Taylor.

Pharmaceutical Chemistry

25. TOXICOLOGY.

The chemical and physiological behavior of poisons; first aid, antidotal and recuperative treatment for the various types of poisoning. The separation and identification of poisons in foods and animal tissues. The laws regulating the sales of poisons are also considered. *Lectures, three hours a week, laboratory, four hours a week, fall quarter. Laboratory fee, $5.00.* Credit, 1 course. Professors Howell and Kyser.

27. PHARMACEUTICAL ANALYSIS. Prerequisite, Chemistry 41-42. A laboratory course supplemented by lectures designed to instruct the student in the Pharmacopoeial methods of the identification and determination of the purity of the official drugs and chemicals. Text-book: *United States Pharmacopoeia. Lectures, three hours a week, laboratory, four hours a week, spring quarter. Laboratory fee, $5.00.* Credit, 1 course. Professor Kyser and an Assistant.

29. URINARY ANALYSIS. Prerequisite, Chemistry 41-42.

By means of laboratory work, supplemented by lectures, the student is drilled in making qualitative and quantitative analyses of urine. The phenomena of urine secretion and elimination and the physiological and pathological constituents of urine, with exhaustive tests for determining the presence or absence of these constituents, are fully dwelt upon. In addition, the student is taught to select and arrange the apparatus required to make urine analyses in the drug store. Text-book: Hawk's *Physiological Chemistry. Three hours a week, spring quarter. Laboratory fee, $5.00.* Credit, ½ course. Mr. Taylor.

35-36. ORGANIC PHARMACEUTICAL CHEMISTRY. Prerequisites, Chemistry 41-42, Pharmacy 21 and 26.

The organic pharmaceuticals of the aliphatic and aromatic series. Lectures and Laboratory. *Five hours a week, fall and winter quarters. Laboratory fee $7.00 a quarter.* Credit, 2 courses. Mr. Taylor.

40. INDUSTRIAL PHARMACY. Prerequisite, Chemistry 61-62.

The manufacture of volatile oils, aromatic chemicals, and perfumer's raw materials. Consideration is given to the art of perfuming and the manufacture and analysis of cosmetics and general toilet requisites. Patents, trade-marks, copyrights, advertising, and package designing are also considered. *Lectures, five hours a week, laboratory, six hours a week, winter quarter. Laboratory fee, $10.00.* Credit, 1½ courses. Professor Kyser and an Assistant.

41. INDUSTRIAL PHARMACY. Prerequisite, Chemistry 41-42.

A technical course in the commercial methods of analysis of crude drugs, pharmaceuticals, trade products, and toilet preparations. References: *United States Pharmacopoeia* and Allen's *Commercial Organic Analysis. Five hours a week, spring quarter. Laboratory fee, $5.00.* Credit, 1 course. Professor Kyser.

43-44. ORGANIC PHARMACEUTICALS. Prerequisite, Pharmaceutical Chemistry 35-36.

Methods of the organic pharmaceutical industries and the recent advances in organic medicinals. Lectures, conferences, and laboratory. *Five hours a week, winter and spring quarters. Laboratory fee, $7.00 a quarter.* Credit, 2 courses. Mr. Taylor.

Materia Medica and Pharmacology

20-21. MATERIA MEDICA, Prerequisites, Botany 10-11, Pharmacology 20.

The individual drugs of the United States Pharmacopoeia and the National Formulary are considered from the standpoint of their origin, history, appearance, structure, active principles, chief medicinal properties, official preparations, and doses. These drugs are grouped and studied according to the families to which they belong. Later they are classified into therapeutic groups, based on their action, i. e., whether they are stimulants, alteratives, irritants, astringents, etc. The subject is amply illustrated from the large collection of the School, which includes all the drugs of the Pharmacopoeia, as well as many unofficial plant parts; by means of colored plates and pictures; and from the library, which contains a large number of valuable books on the subject. Text-book: Culbreth's *Materia Medica. Lectures and recitations. Five hours a week, winter and spring quarters.* Credit, 2 courses. Professor Beard.

30. MATERIA MEDICA. Prerequisite, Materia Medica 20-21.
This course is to be considered as advanced Materia Medica 20-21. In addition to a more comprehensive study of vegetable and chemical drugs, consideration is given to the animal and biological products which are used as drugs. Preliminary to the study of serums and vaccines, the student is taught something of the form, occurrence, habits and resistance of the more common pathological organisms, the activities of which make biological products necessary. *Lectures and recitations. Five hours a week, fall quarter.* Credit, 1 course. Professor Beard.

20. PHARMACOLOGY.
A study of the functions of the normal human body and a consideration of how these functions are modified by the action of drugs. Laboratory experiments are conducted by the instructor to demonstrate the more important physiological reactions of the lower animals, frogs, turtles, and cats. *Five hours a week, fall quarter.* Credit, 1 course. Professor MacNider.

32. PHARMACOLOGY. Prerequisites, Materia Medica 20-21, Pharmacology 20.
This course is concerned with the physiological and therapeutic action of drugs both upon man and upon lower animals. Prior to this work the student has completed Materia Medica 20-21 which is concerned with the study of the physical and chemical properties of drugs, their preparations, dosage, and a brief statement of their effect. This course in Pharmacology is intended to amplify and give in a more detailed fashion an understanding of the way in which the drug acts in normal and in toxic quantities. A consideration of the biological standardization of drugs is also a part of this course. Text-book: Bastedo's *Materia Medica, Pharmacology, and Therapeutics. Lectures and laboratory, seven hours a week, winter quarter. Laboratory fee, $5.00.* Credit, 1 course. Professor MacNider and an Assistant.

Botany

10. GENERAL BOTANY.
An introduction to the structure, classification, and activities of plants, with life history studies from the principal groups, including algae, bacteria, fungi, mosses, ferns, and the seed plants. Instruction in this course is not confined to the lecture room and laboratory, but advantage is taken of the rich local flora and of the Arboretum with its Drug Garden. Through field trips the student learns to use keys and to make collections, and becomes acquainted with the living plants, especially with the trees, shrubs, and drug plants. *Six hours a week, fall quarter. Laboratory fee, $4.00.* Credit, 1 course. Professor Totten and Assistants.

11. PHARMACEUTICAL BOTANY AND PHARMACOGNOSY. Prerequisite, Botany 10.
A study of drug plants; the structure of their parts and contents; the localization and identification of crystals, starches, mucilages, gums, oils, resins, glucosides, alkaloids, etc.; microscopical study and identification of crude and powdered drugs and their adulterants. *Lectures with laboratory work. Six hours a week, winter quarter. Laboratory fee, $4.00.* Credit, 1 course. Professor Totten and Assistants.

For description of courses in Chemistry, see pages 95-97; in English, see page 129.

PRIZES AND SCHOLARSHIPS

THE BRADHAM PRIZE, offered by Mr. C. D. Bradham, of New Bern, N. C., will be given to the student making the highest general average during the three years of study.

THE KYSER PRIZE. A membership in the American Pharmaceutical Association for one year will be awarded to the student attaining the highest average in laboratory work during the first year of study.

LEHN AND FINK GOLD MEDAL. This medal is given annually by Lehn and Fink, of New York City, for excellence in research work.

HOWELL SCHOLARSHIP. A scholarship of $60.00 will be awarded for meritorious work in the second year.

PHI DELTA CHI SCHOLARSHIP. Beginning at Commencement 1927, the Phi Delta Chi Fraternity will award annually a scholarship of $60.00 for tuition to the rising third year student who has made the highest average during the two previous years of study.

FAIRCHILD SCHOLARSHIP. Mr. Samuel W. Fairchild, of New York City, offers annually a scholarship amounting to $300.00 in cash to the high school graduates of the United States who wish to follow Pharmacy as a vocation.

The Fairchild Scholarship will be awarded on the basis of a competitive examination given to candidates who are high school graduates and who have successfully finished their first year's work in a school or college of pharmacy or department of pharmacy of a university which is a member of the American Conference of Pharmaceutical Faculties. Each school, college, or department of pharmacy will be allowed and be limited to two candidates. Application for further information concerning this prize should be made to the Dean of the School of Pharmacy.

THE UNIVERSITY OF NORTH CAROLINA BRANCH OF THE AMERICAN PHARMACEUTICAL ASSOCIATION

The University of North Carolina Branch of the American Pharmaceutical Association was organized in the fall of 1922 in response to the need of the students for a local society devoted to the scientific and ethical development of pharmacy as a profession. Eighteen meetings are held during the year at which many lectures are presented by men well known in American pharmacy. The annual dues are $5.00. This fee covers one year's membership in both the local branch and the national association, as well as a copy of the official year book. There are nearly two hundred members of the Branch in North Carolina.

ONE-HUNDRED AND TWENTY-NINTH COMMENCEMENT
1924

Sunday, June 8th

Baccalaureate Sermon

Rev. Henry D. Phillips

Monday, June 9th

Senior Speakers

George Coggin Hampton — Muriel Anderson James

Clifford Alexander Peeler

The Debate by Representatives from the Dialectic and Philanthropic Literary Societies

Dialectic	*Philanthropic*
S. F. Jones	L. T. Rogers
E. L. Justus	J. M. Saunders

Tuesday, June 10th

Meeting of the General Assembly of the Alumni

Alumni Exercises

Reunions of the Classes of 1864, 1884, 1894, 1899, 1904, 1909, 1914, 1919, 1923.

Annual Meeting of the Board of Trustees

Wednesday, June 11th

The Commencement Address

The Honorable Charles S. Hamlin

Presentation of Diplomas

His Excellency, Cameron Morrison

DEGREES IN COURSE

Bachelors of Arts

Jacob Bernard Abramowitz
Elva Dare Andrews
Frank Bayard Aycock
James Osler Bailey
Walker Barnette
James McRae Bethea

Otto Heath Boettcher
Susie McGlaughan Brett
Dalma Adolph Brown
Allen Dexter Butler
Henry Samuel Capps
Richard Cartwright Carmichael
Boyce Galloway Carson
*John Harris Cathcart
James Elvin Caudle
Robert Bryan Cobb
Addison Boyce Collins
Cullen Bryant Colton
David LeRoy Corbitt
Bennie Booker Dalton
Bessie Davenport
Alton Lawrence Dowd
Wilson Keyser Doyle
Henry Davis Duls
*Maude Helen Duncan
Henry George Epstein
Williams Jenkins Faucett
Zachariah Thomas Fortescue, Jr.
Bracy Frederick Fountain
Kitty Lee Frazier
Francis Overstreet Glover
Guy Vernon Gooding
Nellie Hamilton Graves
John Tillery Gregory
William Wardlaw Gwynn
Ransom Bryant Hare, Jr.
John Obie Harmon
Earl Horace Hartsell
William Henry Holderness
Charles Augustus Holshouser
Hoy Holshouser
Forest Melville Houser
Vinton Asbury Hoyle
William Cooper Hunter
Myriel Anderson James
William Sumner Jenkins
Herbert Eugene Johnson
John C. Kesler
*Greene Wright Lankford
Jack Lazarus
Romulus Zachariah Linney
Johnston Vannoy McCall
Angus Morris McDonald, Jr.
John Calvin McGalliard
*Bishop Lemley Malpass
*Hattie Catherine Manning
James Brady Mast
*Carol Zola Merritt
Samuel Buxton Midyette
Lucy Millender
*James Lowry Miller
Andrew Dalham Milstead
George Edgar Newby, Jr.
Benjamin Franklin Pearce
Samuel Elmer Petree
Annie Artelia Pickard
*James Tindal Quattlebaum
George Young Ragsdale
Arthur Franklin Raper
Charles Gordon Reeves
Charles Lewis Reid
Clifford Carlisle Rowland
Aubrey Earle Shackell
Malcolm Laughlin Shepherd
William Talmage Shuford
Charles Nathaniel Siewers
Edwin Bretney Smith
Charlie Edwin Spencer
John Colfax Stanton
Francis Lee Stroupe
Mary Elizabeth Thompson
Sue Byrd Thompson
Marvin Lee Turner
Nancy Pearle Turrentine
Orion Augustus Tuttle
Frances Preston Venable
David Livingston Ward
Abram Weil
Jasper Daniel West
Rogers Dey Whichard
William Dabney White
Ona Ruth Whitley
Benjamin Franklin Williamson, Jr.
Lily Winn
Thomas Hadley Woodard
John Hilliard Zollicoffer

Bachelor of Arts in Education

Vernon Allen Hill

Bachelors of Science in Chemistry

Charles Woods Flintom
George Moseley Murphy
Eugene Marvin Rollins, Jr.

Bachelors of Science in Medicine

**Thomas Bayard Aycock
Newsom Pittman Battle

* As of 1923
** As of 1922

Bachelor of Science in Geology

Robert Sessoms Weaver

Bachelors of Science in Civil Engineering

Arthur Sloan Chase
Edgar Francis Engstrum
John Neeley Gilbert
Leroy Irwin Lassiter
Dwight Plyler
Fred Chamberlain Ray
George Bennett Wynne

Bachelors of Science in Electrical Engineering

James Ramsey Alexander
Ernest Franklin Bowman
Leland Preston Brown
William Harold Butt
John Francis Chaney
Otto Lumley Giersch
William Knowlton Harding
Thomas Baker Jacocks, Jr.
George Francis Seyffert
Thomas Harrison Shepard, Jr.
Charles Fitzhugh Smith
Frederick Miller Spaugh
George Shamburger Stuart
Russell Aubrey Thompson
Winbourne Thompson
Harry Foote Whitaker

Bachelors of Science in Commerce

James Ervin Adams
John Watson Birkhead, Jr.
John Bryan Havens Bonner
Maurice Wayland Cardwell
Stephen Fowler Daniels
George Dewey Galimore
Joseph Reid Gaskins
Thomas Arthur Groce, Jr.
Moses Killebrew Hearne
Ottis Lee Hedrick
Lynn Ross Hunt
William Baker Hunt, Jr.
Robert Rufus Isenhour
Emsley Armfield Laney
Henry Abel Lineberger
Daniel Commie McLennan
Ernest Preston Mangum
Hugh Gordon Mitchell
Roy Wilson Morris
Charles Edward Norfleet
Donald Ethelred Overman
Clifford Alexander Peeler
Colie Eugene Prescott
Wilmer Carr Presnell
Raymond Ellis Quinn, Jr.
Murphy Dale Ranson
Robert Lacy Ranson
John Elisha Raper
John Brooks Reitzel
Hal Kerns Reynolds
Benjamin Schwartz
William Fletcher Somers
Charles Henry Stephenson, Jr.
Glenn Turner Sykes
Julius Poindexter Timberlake
William Sherrod Tyson
William Baxter Waddill
William Couch Wheeler
Jarrette Andrew White
William Edgar White, Jr.

Bachelors of Laws

Oscar Marvin Abernethy
Sanford Wiley Brown
Alexander Eugene Cook
Dennis Garland Downing
Alvin James Eley
George Coggin Hampton
Tyre Glenn Henderson
Worth Dewey Henderson
Clayton Carr Holmes

Graduates in Pharmacy

Eugene Edgar Adams
Jones Douglas Bain
Melick West Blades
Burney Alexander Britt
Lloyd Plemmons Brookshire
Lemuel Robertson Cheek
William Alexander Clark
Rufus Harrison Curtis
Howard Quinn Ferguson
Fred Henry Fleming
Dorothy Eleanor Foltz
Jamerson Samuel Glenn

Robert Clifton Hair
Stacy Buckner Hall
Eugene Brooks Hardin
Joseph Claxton Harris
William Lewis Johnson
James Hines Kirby
Robert Seymour Knight, Jr.
Daniel Clayton McCrummen
William Russell McDonald, Jr.
Walter McCombs Mauney
Marion Butler Melvin
Franklin Troy Mitchell
Archibald William Palmer
Dan Shepard Pigott
Henry Ebenezer Rees
Henry Clay Ross
William Durwood Sanford
Lloyd Durham Shuford
Charles Jones Sisk
David Allan Smith
Mattie Elizabeth Smith.
Urbano Soler y Estevan
Charles Arthur Swaney
Arthur Clegg Wallace
Waits Artemus Ward
Richard Watson
Paul Webb, Jr.
Neil Etchison Wessells
Maynard Dennis West
Charles Raymond Whitehead
Homer Edward Whitmire
Thomas Read Williams
Thomas Vernon Wilson

Doctors of Pharmacy

James Edwin Johnson
Paul Herman Thompson

Pharmaceutical Chemists

Edward Vernon Kyser
Homer Edward Whitmire

Masters of Arts

Francis Charles Anscombe
James Milton Ariail
Chase Howard Benson
Ralph Walton Bost
Milton Lau Braun
David Hezekiah Briggs
Gaston Swindell Bruton
Herman Jennings Bryson
Kansas Byers
Maude Helen Duncan
Mack Cutchin Gorham
Charles Frederick Hard
Rena Chambers Harrell
Clifford Reginald Hinshaw
Abner Wellington Kelly
Mary Learned
Thomas Alexander Little
Gerald Raleigh MacCarthy
Thomas Mortimer McKnight
George Weaver Mann
Herman Wilkes Martin
Mildred Morse
Maxwell Galbraith Pangle
William Vann Parker
May Belle Penn
Wyatt Andrew Pickens
Wiley Miller Pickens
Thomas Edward Powell
Arthur Ranes
Howard Meacham Reaves
William White Rogers
Lonnie Ray Sides
John Leroy Smith
Nannie May Smith
Edward Octavius Smithdeal
Sterling Aubrey Stoudemire
Joanna Farrell Sturdivant
Chester McKindly Sutton
Russell Winfield Whitener
Edward Payson Willard, Jr.
Samuel Hood Willis
Katherine Elizabeth Wilson
Thomaes James Wilson III.
Louis B. Wright

Masters of Science

Luther Bachman Aull, Jr.
Arthur Benjamin Culbertson
Wilton Robinson Earle
Roland Byerly Eutsler
Earl DeWitt Jennings
Vera Evanna Millsaps
Joseph Harley Mourane
Howell Grady Pickett
Joseph George Wardlaw, Jr.
Dare Abernathy Wells
Thomas Augustus Whitener

Doctors of Philosophy

John Nathaniel Couch, Thesis: Sexual Reproduction and Variability in the Genus Dictyuchus.

Irene Dillard, Thesis: A History of Literature in South Carolina.

Almonte Charles Howell, Thesis: Sir Thomas Browne and Seventeenth Century Thought.

Anna Forbes Liddell, Thesis: The Logical Relationship of the Philosophy of Hegel to the Philosophies of Spinoza and Kant.

Henry Bascom Mock, Thesis: The Influence of Ovid on Spencer.

Haywood Maurice Taylor, Thesis: The Bromination of 2-Amino-p-Cymene.

HONORARY DEGREES

Doctors of Laws

Franklin Henry Giddings
Thomas Gilbert Pearson
William Jackson Adams
John Manly

Doctor of Letters

Olive Tilford Dargan

Honorary Civil Engineer

Charles M. Upham

MEDALS, PRIZES, AND FELLOWSHIPS

The William Cain Prize in Mathematics—V. A. Hoyle.
The Eben Alexander Prize in Greek—P. A. Clement, Jr.
The Early English Text Society Prize—Katharine E. Wilson.
The Callaghan Scholarship Prize in Law—C. C. Holmes.
The Ledoux Fellowship in Chemistry—F. L. Brinkley.
The Bradham Prize in Pharmacy—L. P. Brookshire.
The Hunter Lee Harris Memorial Medal—Mary L. Henley.
The Mildred W. Buchan Scholarship in Philosophy—Lucy F. Lay.
The Wm. J. Bryan Prize in Political Science—W. J. Cocke, Jr.
The Graham Kenan Fellowship in Philosophy—Catherine Gilbert and Anna F. Liddell.
The J. W. Bailey N. C. Club Prize—Lucy F. Lay.
The Fellowship in Playwriting—Frances MacR. Gray.
The Archibald Henderson Prize in Mathematics—W. V. Parker.
The Research Prize in Pharmacy—C. R. Whitehead.
The J. Bryan Grimes Fellowship in N. C. History—W. Barnette.
The Bingham Prize—E. L. Justus.
The Mangum Medal—G. C. Hampton.

Elected to Membership in the *Phi Beta Kappa Society,* 1924: William Johnston Cocke, Jr., President; Oliver Reagan Rowe, Vice-President; George Francis Seyffert, Eugene Morehead Armfield, Samuel McKee Eddleman, Henry Reasoner Fuller, Thomas Bryan Smiley, Vergil Rex Sink, Vinton Asbury Hoyle, John Calvin McGalliard, Dwight Plyler, Moses Killebrew Hearne, Charles Nathaniel Siewers, Rogers Dey Whichard, William Dabney White, Marion Francis Hetherington, Almonte Charles Howell.

Elected to Associate Membership in the *Society of Sigma XI,* 1924: Ralph Walton Bost, Frederick Philips Brooks, Herman Jennings Bryson, Wilton Robinson Earle, William Everette Giles, Charles Roberts Harris, Earle DeWitte Jennings, Mildred Morse, Joseph Harley Mourane, James Theophilus Penny, Nannie May Smith, Dare Abernethy Wells.

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